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PHARMACOMASTIX:

OR, THE
OFFICE, USE, and ABUSE
of APOTHECARIES explained; the present
degenerate State of PHARMACY, with its
manifold CORRUPTIONS and ADULTE-
RATIONS, considered; and some ESSAYS
on reforming thereof:

Humbly addressed to

A MEMBER of PARLIAMENT,
with Intent to shew the necessity of amending
and continuing a temporary STATUTE, for
preventing Frauds and Abuses committed in the
making and vending unsound, adulterate, and bad
Drugs and Medicines, now near expiring.

By the AUTHOR of the SCHEME on which
the said STATUTE was founded.

SALUS populi suprema Lex.

D U B L I N:

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ERRATA.

Page 5. line 12. for *designed*, read *deigned*. p. 10. l. 31. after
be, add *has*. p. 18. l. 10. after *be*, add *sold* or. p. 28. l.
31. for *prospective*, r. *prospect* left. p. 32. l. 1. for *late* *a*, r. *a*
date. ibid. l. 19. for *malpractices*, r. *mal-practices*. p. 22. l. 33.
for *billings*, r. *billings*. p. 24. l. 25. for *poultry*, r. *paltry*. p. 27.
l. 34. for *tho'*, r. *when*. p. 38. l. 13. for *pourtraits*, r. *pourtraite*.
p. 49. for *these*, r. *those*. p. 53. l. 26. for *ome*, r. *ome*. p. 55. l.
24. for *distillment*, r. *destillment*. p. 64. l. 25. for *the*, r. *a*.





PHARMACOMASTIX:

OR, THE

OFFICE, USE and ABUSE
of APOTHECARIES explained, &c.

SIR,

SINCE PHYSIC alone among all the useful sciences, has at this time the misfortune to be *unrepresented* in Parliament, and as the *STATUTE for preventing Frauds and Abuses in the making and vending unsound, adulterate, and bad Drugs and Medicines*, is now near expiring, I hope it may not be improper to shew the necessity of continuing that Act, and to offer some Amendments thereto, which the artful evasions and corruptions of mercenary artificers have rendered absolutely necessary.

Your early acquaintance with the nature and constitution of Parliaments, your weight in our national Assembly, and your extensive benevolence, have pointed you out the fittest patron and advocate for a Scheme wholly calculated for the public Benefit, to correct the many enormous Abuses in PHARMACY, and consequently to promote the

health and temporal happiness of a considerable part of mankind. Therefore I shall venture, without any farther apology, to submit the following lines to your serious consideration.

There is no well regulated country where the **LEGISLATURE** has not made some provision for the preservation of the health of the *Body natural*, as well as for that of the *Body politic*; yet pity it is, that in most, for want of due Information, all the Laws hitherto enacted in regard to *Medicine*, have fallen far short of it's good intentions. For as an Evil whose source or cause is unknown must be remediless; so is it scarce possible, that the Frauds or Abuses in any art or trade, tho' ever so pernicious to society, can be prevented or punished by law, until they are first discovered and made apparent to the law-givers.—If some of the honest artists or tradesmen of every occupation, would ingenuously disclose the secret corruptions of their respective callings (without which they may for ever escape the cognizance and censure of the **LEGISLATURE**) we might then hope for a general reformation. But alas! we are too like the *Ephesian smith* in scripture, ready upon every attempt to purge us from iniquity, to cry out with him, *The craft is in danger.*

The natural, fragile structure of the human Frame, which has rendered it subject to sundry inevitable vicissitudes, from the force of external bodies, from the alterations of the air, the nature of the aliments, and from the very vital actions, has made the *healing art* in general, of all others the most useful and necessary for the support and well-being of mankind, and nearly *coæval* with the Creation †. So sensible were men in all ages of the usefulness and dignity of *Physic*, that it has ever been held in the utmost reverence and esteem.

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The inventors or improvers of this noble art were by the antients ranked among the Gods, and stiled sons of Gods, and the hands of Gods. It was a long time practised by heroes only, or the sons of Gods, † being deemed too sacred for prophane hands. The Heathen, Jews and primitive Christians agreed in paying the utmost respect to the healing art, believing it of divine and heavenly origine ‡. Hence we find the greatest honors possible were conferred on the antient physicians in the most wise, polite, and politic states. They were generally caressed or envied by kings and princes who designed to study, and endeavoured to acquire and practice their inestimable art. Many natural productions as well as artificial preparations to this day retain the Name of a royal discoverer or inventor. And two § of the most considerable antient physical writers whose works are extant at this time, were, one the son of a king, the other a sovereign prince. The *Athenians* so justly prized the worth and excellency of the divine *Hippocrates*, that they initiated him into their grand mysteries; they presented him with the freedom of *Athens* in a crown, (a royal diadem) to the value of a thousand pieces of Gold, and settled a considerable stipend for his maintenance during life, at the public expence. — They likewise made a law prohibiting all women, bondsmen, or slaves meddling with Physic: as they did likewise in *Locris*, which decreed, that disobedience to the directions or prescriptions of Physicians should be punished with death. *Julius Cæsar* made all Physicians that should settle in *Rome*, freemen and denizens ||; and when, for some reasons of state, a succeeding emperor banished the *Greeks* that city, yet the Physicians, tho' all *Greeks*, were exempted. It is also observable

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that

† *Ælian de. animal. lib. ii. cap. 18.*‡ *Cicer. Tusculan. Quæst. lib. 3. Hippoc. de pris. medicina S. Aug. de Civit. Dei.*§ *Mesue & Avicen.* || *Sueton.*

that the first alien known to obtain his freedom of that once glorious city was a Physician *. The Physicians of the college of *Milan* are dignified with an order of knighthood, and wear to this day golden Collars †. Innumerable other instances might be produced, if necessary, to shew, that *medicine* and the *medical sages* were ever respected and esteemed, admired and encouraged, all the World over. See *Celsus*, *Senert*. *Inst. Med. Moæbii Synops. epitom. Inst. Med. Le Clerc Hist. de la Medecine*. *Friend's History of Physic*. *Harris's Pharmac-anti-empyr. and Pref. to Fuller's Pharmacop. extempor.*

If the *healing art* was thus honored in the ruder, early ages, how much does it deserve our regard and attention with the many considerable improvement of the moderns, which were to the antients utterly unknown ?

There can hardly be any one insensible of the value of **HEALTH** and **LIFE**, since the very first impulse of nature prompts every creature to use all ways and means to preserve them : And nothing but an uninterrupted enjoyment of health can render any man regardless of so invaluable a blessing. It was the dreadful contagion which raged in *Rome* about the 301st year after the building that city, where there were not then found Physicians enough to attend the sick ‡, that first made the robust *Romans* sensible of the Use and Excellency of **PHYSIC**, which they afterwards so generously encouraged, and so amply rewarded. *Salus populi suprema lex esto*, is a precept which was once religiously observed, in its fullest extent, by every worthy *Roman* senator. And tho' it might not have been originally pronounced or received in this sense literally, yet I apprehend the application of it merely to the bodily health

* *Arcagathus.*

‡ *Dion. Halicarnas.*

† *Joh. Bapt. Sylvatic.*

health of the people, can be no wide deviation from the sense of the wise author ; since the general well-being of the community depends upon the health of its Members.

PHYSIC or **MEDICINE** is the art by which our lives and health are preserved and restored. And abuses or mal-administration in any branch thereof must necessarily prejudice or subvert the whole. This cannot be charged upon *Physic* or *Chirurgery*, for it may in truth be affirmed, that this Kingdom was never so happily provided in that way, as at present, with men of both professions inferior to none in *Europe*, in erudition, judgement, and probity. But **PHARMACY**, or the *apothecary's art* in particular, which ministers in an especial manner to the two former branches, namely *Physic* and *Chirurgery* ; tho' the good success of both most considerably depends thereupon, is left neglected and uncultivated, over-run with *errors*, *abuses* and *frauds*. And tho' there are no corruptions in any art so pernicious and destructive to the public, as those of *Apothecaries*, yet (melancholly consideration !) none are so little liable to discovery or punishment. Deceits in most trades are perceptible to the generality, and are not only in some sense cognizable by law, but as they must sooner or later be discovered by the customers, common policy will direct most tradesmen to some integrity in their callings. But as the most baneful frauds in *Pharmacy*, being never suspected, are seldom or never perceptible to the public, tho' often felt, (few or none besides *Physicians*, *Chirurgeons*, or *Apothecaries*, being sensible of the evils in this way,) so none transgresses with more ease and security, than the dishonest apothecary. He may destroy the reputation of the most careful and judicious physicians and chirurgeons, and murder thousands of their patients, his bill is nevertheless paid, and he is still unsuspectedly entertained, caressed and employed by the surviving Families.

lies. A little artifice can tinsel or varnish over the most vile *frauds* or *perfidious neglects* of the *unjust apothecary*. If he can command a brazen front, with an hardened, servile conscience, it is enough, all is safe. For his *vassal apprentices*, who only can be privy to his villainy, are hushed, they are obliged to keep his *secrets* without distinction.

As **PHARMACY** is a most useful and necessary art, nay, according to one of the fathers of physic †, *the most useful branch of medicine*, when in a state of purity and perfection, so it is the most *pernicious and destructive*, when it is not exercised with the utmost integrity, care, fidelity and good understanding. No knave so vile, so dangerous to society as a bad apothecary. The rapacious highwayman, a professed *enemy* to mankind, bids the unwary traveller stand and at the peril of his life part with his money: But the dishonest apothecary, a more subtil kind of robber, pretends a *friendship* for his Customer, yet takes the same opportunity with the former (which the love of life and health, and dread of death that human Nature is possessed with, amply affords him,) and so robs thousands of their fortunes, giving them only some vile, useless drug in *exchange*; by which their lives are always endangered and often destroyed. And yet notwithstanding the apothecary is never in the least suspected; so that the orphan may oft pay him for the death of his parents, parents for that of their children, widows for their husbands, and so forth: and perhaps gratefully acknowledge the great care and tenderness of their *worthy apothecary*, tho' he might have been more instrumental to their death than the disease.

For these reasons, the apothecaries have no temporal advantages in, nor any incitements to honesty or integrity in their calling. For while men can buy the most base and worst commodities, and may without

† Celsus. See J. D. Horst. Inst. pharmac. L. ii. C. i.

without detection, substitute them for, or sell them at the same rate with the best and most genuine, we shall probably be infested with such mercenary wretches as will prefer their own ill-gotten gain, to a clear conscience and the safety and welfare of their neighbours ; *the far greater profit arising from illegal trade.*

I would not be hereby thought to charge all the worthy apothecaries of this kingdom, with ignorance, disingenuity, or disintegrity ; far be it from me ! I am well assured that we have some, as judicious, as skilful, and as honest in their way, as any in *Europe*. But as it may not be allowable to point at the indentical guilty persons, either by naming the one, or exempting the other, so I am obliged to make the charge in general against the whole fraternity, my self not excepted. So *let him whom the cap fits wear it*—* *let the galled jade wince.*—It is thro' a real concern for the just, good men, that are indiscriminately blended with the unjust, and for the scandalous disrepute which the excellent art of *Pharmacy* is fallen into, together with the long train of evils which attend the public in general, from the base craft and corruption of avaricious falsifiers of medicines, that I am urged to this work.

I have a long time had a conflict with myself about this important undertaking. I must confess I some time feared the united powers of the wicked against me, having on the like occasion heretofore, fatally experienced the strength of the *confederate Opponents of reformation* : And above all, I avoided taking upon me a task, to which I am conscious of, and confess my inequality. But at length laying aside all selfish fear, and finding none of the many more capable inclined to engage in such a just and necessary *warfare*, I have at all hazards presumed

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* Shakespear's. Hamlet.

to give you the following informations, and to submit these just (tho' indigested) Observations to the wisdom of the **LEGISLATURE**; from whose paternal care and benevolence alone, we may expect the due encouragement of *Virtue*, and the suppression of *Vice* of every kind. If my weak endeavours answer any useful purposes, I have my full recompence in being but ever so mean an Instrument of effecting a public good. I hope the merits of the Cause, for which I am but a slender advocate, and the simplicity and honesty of mine intentions, will gain your attention, plead for the weakness of my performance, and supply the want of *Rhetoric* and *Oratory*.

In order to lay this matter properly before you, I judge it expedient,

I. To consider the rise and primitive state of *Pharmacy*, and from the best authority to point out the proper *Office* and *Duty* of, and the requisite *Qualifications* for an *Apothecary*. In which I shall cursorily endeavour to explain the difference between *Apothecaries* and *Druggists*.

II. To shew the present state of *Pharmacy*, and how far the modern deviate from the proper *Office* and *Duty*, and fall short of the *qualifications* of the antient true *Apothecaries*; in which fatal degeneracy it will appear, that it is scarcely possible for a man to learn that Art *fully*, and then to get an honest livelihood by that profession *solely*, let his knowledge and understanding in it be ever so considerable, unless he had the good fortune of an extraordinary genius, which may lead him to study it properly, and of gaining a set of customers who pay uncommon deference to his judgement and integrity.

III. To lay open some of the most inconsiderable and obvious *Frauds* and *Abuses* in this way, whether thro' *ignorance* or *design* of *Apothecaries* or *Druggists*; and to point out some of the most pernicious

nicious *sophistifications* of Medicines, with the evil consequences thereof. And

IV. and lastly, To offer some means to prevent such horrid mal-practices for the future; whereby the KING is not only basely defrauded in his just Revenue, by which every Subject must suffer; but also the PUBLIC is robbed of the chief blessing of this life, Health, and the means of restoring it; and the fair and honest Apothecary is cramp'd and restrained in the lawful discharge of his function; being undersold by the fraudulent and dishonest.

I. In the pure, primitive ages of the *healing Art*, the physician not only *prescribed*, but *collected*, *prepared*, *dispensed*, and *administred medicaments*, as well as *performed chirurgical operations*. For the now three distinct branches of *Medicine*, called *Physic*, *Pharmacy*, and *Chirurgery*, were (till about the time of *Herophilus* and *Erasistratus*) managed by one and the same hand *. But finding it too laborious and burdensome, and according to a trite aphorism of the father of *Physic*, † that the life of man was too short to comprehend fully, or to compleat the knowledge of that sublime *Art*, it was judged expedient to divide it into these three different parts, that having less to study in each, it might become less tedious and prolix, insomuch that every student may hope to arrive at a competent degree of knowledge in that branch which he chose for his peculiar study: Whereupon the three distinct offices of *Physician*, *Apothecary*, and *Chirurgeon*, were instituted.

The *Physicians*, on account of *seniority* and *superlative erudition*, are justly allowed the *pre-eminence* of the two other brethren, which, indeed, I think that profession merits of all others, divinity only excepted. A *Physician* must have a most liberal education: He must be well versed in all the learned languages

* Cels. Pref. l. i. Le. Clerc. hist. de la Med. p. ii. l. i. c. ix.
† Hippoc. Lib. i. Aph. i.

languages, in natural history, in all parts of Philosophy, in Anatomy, the animal Œconomy, the histories of distempers, their natures, signs, Symptoms, causes, diagnostics, prognostics, indications of Cure, &c. He must likewise be well grounded in the theories of the Chemic and Galenic pharmacies and of chirurgery. For according to the wise author of medicine, * natural endowments, learning, a proper place for study, education from infancy, industry and time, are requisite to constitute a physician; in consequence of which we find, the education of such is in schools and universities, seminaries of polite literature, where all things are learned to compleat the physician and the gentleman. Thus must a physician be qualified before he can undertake the care of the sick in any, the slightest disorder: And he who made the greatest progress in that admirable art, even the divine sage, † is not ashamed to confess, that tho' he was now advanced in old age, and got to the extremity of life, he had not yet arrived at the end of physic. Whence it follows that physic is the deepest and most extensive study, and it's practice the weightiest and most important charge, that human nature can possibly undertake.

CHIRURGY now usurps the second rank; and tho' it has had a worse fate than physic, in falling some time into the hands of ignorant and illiterate men, yet it's knowledge is again happily revived among us, and all those who make a figure in that profession, are not only men of learning and erudition, but inferior to none in Europe in judgement and understanding in that excellent art.

For some centuries Chirurgery 1 as well as Pharmacy, 2 was subservient and ministerial to PHYSIC. The first Chirurgeons † and Apothecaries after the

* Hippoc. lex. † Hippoc. Epist. ad Democrit.

* 1—2. Friend's Hist. Phys. Vol. 2. p. iii.

† Δημόσιη Ἀριθ. Polit. L. iii. C. ii. Medicins maineuvre & medicins pharmaceutique. Le Clerc Hist. de la Medicine, p. ii. p. 47~

the division of *Medicine* into these three branches, being taught by the *PHYSICIANS*, * were by them solely directed and conducted in the exercise and discharge of their respective functions. So that the *then Chirurgeons* never bled, opened tumours, amputated limbs, nor performed any other operation in their profession ; nor did the *Apothecaries* apply, or administer any medicine, but in consultation with or by the advice or approbation of the *Physicians*. Yet as it is now essentially necessary to compleat a *Chirurgeon*, that he be a man of learning, a perfect master of anatomy and of course well acquainted with the animal *œconomy*, and his object being one, and his practice being grounded on the same principles and *rationale* with *Physic*, (with this only distinction, that one treats the *external*, the other the *internal* disorders of the human Body,) it does not seem unreasonable, that *such Chirurgeons*, should bleed and perform other operations in that way, and even prescribe, especially *external applications*, upon their own Judgement solely.

But the case is quite otherwise with *Apothecaries* : For altho' they should be good scholars, and necessarily conversant with the writings of the learned who treated on their profession, yet does their *requisite Readings* no where instruct them in *anatomy*, or the *animal œconomy*, nor in any of the many other necessary qualifications of *physicians*, or *chirurgeons*, the knowledge of the *Materia medica* only excepted, the apothecary's office, his *very* appellation in all the known languages denotes. Thus among the antients, *Medicus sellularis* implied an apothecary or one who prepared and dispensed medicines. As did likewise *Pharmaceuta* and *Medicamentarius*. In like manner *Apothecarius* an apothecary from *Apotheca*, a shop, ware-house or

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* *Αρχιτεκτονικοι* ou *Medicins Architect*. *ibid.*

repository, or (in the more common acceptation,) a place where drugs or medicines are kept or sold; and he may be aptly called a *Physic-Shop-keeper*: also *Pharmacopœus*, a maker, preparer or compounder of medicines. And likewise *Seplasiarius*, from *Seplasia*, a market-place in *Capua*, once a famed mart for drugs and perfumed ointments. And the sole proper business and office of an Apothecary, is, to *collect* or *procure* at due times and seasons, from the proper places; the several, usual medicinal productions of *Nature*, the simples of the *Mineral*, *vegetable* and *animal Kingdoms*; to *select* and *prepare*, to *decompound* or *compound* them according to *Art*, by the directions of *Physicians*, and by their prescriptions only, to *dispense*, *administer*, or *apply them*. * To qualify him for which undertaking he should be well versed in natural history, as far as it regards *Mineralogy*, *Botanology*, or *Zoology*, and rationally as well as experimentally grounded in the knowledge of the *Galenic* and *Ghemic Pharmacies*; which is a large Field for a man to exercise his talents in learning; and it must well employ his time every season of the year after, if he intends discharging the duty of his office strictly and faithfully. *Pharmacopœia* is an injurious name, improperly given to an Apothecary. The *Pharmacopœia* of the antients seem to have been such as were employed by artists in collecting or procuring the simples; they were mere venders of drugs, and pretended to no art or knowledge beyond that; but as these men in time degenerated into knaves or quacks, they became hateful to society, and the name of *Pharmacopœia*, with most writers since implies, a *canting hawker*, a *false quack*, or a *deceitful mountebank*. How applicable this appellation, in the *worst sense*, may be to some *dealers in medicine*, who call themselves *Druggists*, I shall not here determine; but we

* Renod. Inst. pharmac. c. 2. Geo. Wolf. Wedel Pharmac. Proœm,

we have the satisfaction to observe, that that trade is again revived; for in *London, Marseilles, Amsterdam, Rotterdam, Leghorn, Hamburg*, and most other regular trading cities in *Europe*, the *Druggist* is none other than a mere *Merchant of Drugs*, and in the *best sense* of the word, *Pharmacopola*.

So different a profession from *Physic* was *Pharmacy* deemed, that not above a century passed, since the *Grocers Company* in *London* dispensed medicines. But it was at length found expedient, that some should separate from that body, who should take upon them the entire management of the medicinal part of that trade, that by applying themselves solely to an affair of so great importance to the public, they might cultivate and attain to a competent knowledge in so useful and necessary an art. Whereupon *Pharmacy* was revived, and the *Apothecaries* throwing off all incumbrances, betook them to their proper profession, in which they soon became eminent, were taken notice of, and encouraged by the learned, and grew into such favour with *King James the First*, that he incorporated them by Royal Charter, and used to call them *his own company*. Thus they became a distinct society from the *grocers*.

The illustrious college of physicians of *Augsburg*, which was the first, that I find, who took the pains of compiling, and published the celebrated *Augustane Dispensatory*, has most minutely and justly laid down the qualifications for and the office and duty of an *Apothecary*, from whom, with some few amendments from other authentic writers, I make the following abstract.

As *PHARMACY* is a most considerable branch of the *HEALING ART*, being the physician's chief agent, so the *apothecary* should be a just good man, and principally grounded in the knowledge of his profession.

He should in general be untainted in his morals, and of a perfect sound understanding, endowed with a just reverence for the *SUPREME BEING*, and the true principles of

of the CHRISTIAN RELIGION ; pious and faithful, just and equitable ; humane, benign, affable, placable, merciful and ready ; mild and bountiful to the poor and indigent ; ever preferring publick to private gains ; vigilant and regardful of the dangers and necessities of the sick ; in acts of mercy and charity, diligent and unwearied ; not covetous, penurious, or mercenary ; for in buying of drugs, he is to prefer the testimony of a clear conscience, the good of his neighbour, and his own credit and reputation, to ill gotten riches or lucre. Wherefore, he is to procure genuine good drugs and medicines at any rate, rather than by buying at the vilest, dispense adulterate or bad medicines, and deceive his unwary customer to the peril or prejudice of his life or health. He should be sober and regular in all his conduct ; no gamester, sot, or drunkard ; nor prone to libidinous concupiscence or venery.

These premised, his capacity is next to be considered. He must not only have a strong natural genius to lead him to this art, but he must be a good scholar, to enable him to read the ordinary prescripts of physicians and chirurgeons, which (from the difficulty of translating them with any certainty into the vulgar tongues, and for other obvious reasons,) are all over Europe wrote in Latin, and especially, that he may acquire a thorough knowledge of his profession, by consulting the works of the learned, who treat upon the several branches thereof.

The Authors recommended, are *Dioscorides*, *Galen*, *Ægineta*, *Ætius*, *Mesue*, *Nich. Præpositus* and *Myrepfius*, *Pliny*, *Corn. Celsus*, *A. M. Brasavolus*, *Valer. Cordus*, *Anut. Fæsius*, *Fuchsius*, *Garcias ab Horta*, *Nich. Monardes*, *J. B. Sylvaticus*, *Fernelius*, *Joubertus*, *Renodæus*, *Melicbius*, *Coudenbergius* ; also, *Matbiolus*, *Lo- nicerus*, *Tragus*, *Lobelius*, *Pæna*, *Dodonæus*, *Taberna- montanus*, *Quercetanus*, *Job. Jac. Weckerus*, *Heurnius*, *Oswald. Crollius*, &c. To which must now be added *G. Agricola*, *Fer. Imperatus*, *B. Cæsius*, *Worm*, *Casp. & Joh. Bauhin*, *Salmasius*, *Schroeder*, *Zwelfer*, *Morrison*, *Ray*, *Tournefort*, *Ang. Sala*, *J. Hartman*,

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Mynsicht, the Hoffmans, Clusius, Piso, Bontius, Marcgravius, Wedelius, Le Mort, Dale, Stahl, Boerhaave, and many others ; besides the several collegiate dispensaries of Augsburgh, London, Bruxels, Edinburgh, Paris, Leyden, Hague, Ghaunt, &c. from these the apothecary can best learn the medicinal parts of the mineral, vegetable, and animal kingdoms, with their proper names and synonyms in the Arabic, Greek, Latin, and vulgar tongues : These will teach him to discern the good from the bad, and to select the true and genuine, from the false and sophisticated : and in short, from them he can collect the generic marks and characteristics of the simple, with proper instructions for preparing, and necessary animadversions on, the compound medicaments.

Having laid these solid foundations for his future practice, his *Œconomy* comes next under consideration.

His shop should be situate in a convenient, open, temperate place, not exposed to damps, winds, dust, smoke, or stench. And as it contains sundry distilled liquors, wines or vinous infusions, tinctures and sirups, electuaries, confections and conserves, which too much heat will render vapid or mothery, ferment, sour, or otherwise spoil ; and which excessive cold will chill and freeze, congeal, crystallize, or otherwise prejudice : A vintner need hardly observe a greater exactness or regularity in adjusting the temperature of his cellar or vault, than an Apothecary should in that of his shop or store-room. Wherefore he should avoid the extreme heat of the sun, which on one hand he is exposed to, all the summer months, and on the other, the extraordinary cold of the winter : For which reasons, that aspect is most eligible which affords the greatest mediocrity. Nor should it be exposed in any, to the many inconveniences and evils of open unglassed windows and doors, nor made more intemperate by fires made on particular occasions only, either in summer or winter.

And that the medicines may be handled cleanly and neatly, (those for internal use more especially, which are taken with the greater reluctance and disdain, the more sordidly they are observed to be treated) the Apothecary is to keep his shop and utensils sweet, pure, and clean; and with indefatigable diligence, furnish it with the usual commodities at due seasons, and preserve them for future use in fit receptacles and convenient places.

He is not to sell or administer, nor suffer, or cause to be administered to any, (without the immediate licence of a Magistrate, or the prescription of a judicious Physician) any sort of poyson or poysonous drugg, pbiltres, provocatives of terms or abortion, opium or laudanum, strong vomitives or purgatives, nor other such like powerful medicines, especially the Chemical preparations of Mercury and Antimony.

He should be strictly just and faithful, cautious and circumspect, in the dispensing and preparing the ordinary prescriptions of Physicians, as well as the officinal compositions. Nor should he rashly or conceitedly, substitute any one thing for another in a medicine, trusting to his own judgement or knowledge, nor omit the least or meanest ingredient in any composition whatsoever, without the advice, consent, or approbation of the prescriber, or some other skilful, prudent physician. But with religious fidelity, care and integrity, dispense all prescripts in quality and quantity, truly and exactly, according to the literal sense of such prescript or recipe. He is to keep an exact registry of all such recipe's, and the originals, carefully filed. He is to keep such as are for secret complaints from being exposed. He is to repeat no medicine without the direction of the prescriber. See prolegom. Isagog. in *pharmac. August.* Cap. i. I. D. Horstij *Inst. pharmaceut.* Part. i. Cap. ii. Hoffman. *Clav. pharm. Schroed.* p. 29.

So sensible were the wise senate of Augsbourg of the use and necessity of these rules, that they made some excellent laws, as well to inforce the observation thereof, as to regulate the practices of physic, pharmacy

pharmacy and chirurgery in every other instance : And the senate of *Gbaunt* also took much the like method.

Among other statutes it is enacted, “ That no apothecary, shall so far swerve from his duty, as to interfere with the proper office of a physician or chirurgeon ; and that none presumes to sell or administer medicines (strong purgatives and provocatives especially) without the prescription of a physician ; lest by the rash, ill-judged, or untimely use of the most efficacious remedies, the health of the public may suffer, and the best medicines fall into contempt and disrepute ; physicians only being the proper judges of the fit subjects and just times of administering such remedies.” — “ The apothecaries are obliged to prepare and compound all their medicines by the college dispensatory, * and to sell them at the rates fixed by the senate.” “ All quacks, empirics, mountebanks, and such like impostors and pretenders to medicine whatsoever, not found legally qualified, are expelled the state.” See the decrees and statutes of the senates of *Augsbourg* and *Ghaunt*, annexed to their several dispensaries.

The apothecaries of *Paris* are obliged, not only to conform to the dispensatory, strictly and literally, but are likewise prohibited to vend or administer any medicines whatsoever, without the prescription of one of the faculty of medicine or one of the King’s physicians. See an arret of parliament prefixed to the *Parisian* dispensatory.

Nothing assuredly can contribute more to the improvement and benefit of the healing art, than the professors of the different branches thereof, applying themselves entirely to the study and practice of their respective callings. And this was certainly the wise design of our predecessors in dividing it into those

* See the King’s proclamat. prefixed to the *London* dispensat.

three several parts ; and were it yet further subdivided, it is probable it might be brought to greater certainty and rendered more generally beneficial to mankind, than it can be in an aggregate state ; since the meanest branch can sufficiently employ the whole attention and understanding of a man. We find that many of the antients were of this opinion *, and that it was approved by the late celebrated doctor *Harris of London* †. What considerable discoveries and improvements have already been made in physic in general by these divisions, are very obvious to all that are conversant with the history of medicine. *Physicians* by appointing proper agents for the more *operative* and *mechanic* parts of their profession, threw off all incumbrance and obtained more time and leisure for study. *Chirurgery* was cultivated under the same management and both have arrived at the extraordinary pitch of eminence we now see them in, under these wise Regulations. *Pharmacy* too, while it kept within the proper bounds, shone and flourished ; for it is observable, that no set of men made a better figure in their way than the apothecaries that retained their integrity and kept within the just limits of their Occupation ; which the works of many of them amply testify. Of these are *Ferrantes Imperatus* a Neapolitan, who wrote a most excellent natural history, 28 books in *folio* ; *John Parkinson* of *London*, who wrote the *Theatrum Botanicum* and *Paradisus Terrestris* ; *Thomas Johnson* of the same, who emaculated and augmented *Gerard's Herbal*, all in large *folio* ; *Moses Charas* of *Paris*, who wrote a very useful dispensatory, in large *quarto* ; *Peter Pomet* of the same, a mere druggist, who wrote a history of drugs in *folio* ; *M. Lemery*, who wrote a course of *Chemey* in *octavo*, an universal dispensatory, and a dictionary of drugs in large *quarto* ;

* *Herodot.* L. ii. S. 84.

† *Pharmac. Anti-Empiric.* p. 217.

quarto ; and *M. Homberg*, who made many improvements and discoveries in the Pharmacies *, who were both honoured for their eminence with the degree of *doctor of medicine*. At present Mr. *Joseph Miller* and Mr. *Isaac Rand* of *London*, deserve honourable mention ; as do Messieurs *Bolduc* and *Geoffroy* of *Paris*, whose worth and merit none can be a stranger to, who reads the memoirs of the *Academy Royal of Sciences*. I have reserved to bring up the rear, the brightest ornament of his profession, the late learned and ingenious Mr. *SAMUEL DALE*, whose excellent *Pharmacologia* has rendered him well known to all the physical world. For tho' he lived in *Brantry* in *Essex*, yet was his merit so well known to the illustrious college of physicians of *London*, that before he published the last edition of his works, which he greatly augmented and improved, he was honored with a licence to practise physic. With him let me remember that great and laborious artist and curious naturalist, *SEBA* of *Amsterdam* ; whose prodigious *Musæum* with the history thereof, five large volumes in *folio*, must render his memory famous to latest posterity.

II. While *Pharmacy* was practised by such able hands as those, *Physic* which has so great a dependence upon it, must have flourished. But such became the insatiable avarice of most of the *apothecaries*, that they could not long content themselves with the ample profit that arose upon the sale of their proper commodities and manufactures ; but envious of their elder brethren of the faculty of physic, they now endeavoured to imitate them, as the frogs in the fable did the oxen, (and indeed with much the same success) and sought after new methods of increasing their sordid gains. This they effected by treacherously and surreptitiously invading the provinces of *physicians* and *chirurgeons*, and

* See *Memoires de l'Acad. Roy. de Sciences*.

alluring the populace under the specious pretence of giving *advice* in physic and chirurgery *gratis*. Which fatal delusion readily insnared the ignorant vulgar, who could not be sensible of their gross ignorance and manifest incapacity for such an undertaking, nor apprehend that these very bountiful gentry, took care to tax their medicines with their invaluable advice ; so that their prescriptions (of which it must be confessed they are always most liberal) are now charged infinitely more than their real value, or what those of physicians and chirurgeons, (tho' of more intrinsic worth, being certainly better adapted to particular exigencies, to the constitution and the indications of cure,) might be made up and sold for. And thus by iniquitously enhancing the prices of remedies and giving them in unnecessary abundance, they clandestinely acquired unmerited fees, equal to those justly due to the most regularly educated and most experienced physicians or chirurgeons.

That this is the present case, every intelligent, candid apothecary must confess. And these fallacies might be further evinced beyond dispute, were the generality to be made sensible of the just rates of medicines and the most monstrous, extravagant bills they are frequently charged. To see two drachms of *Sal prunel* not worth a penny, disguised with some insignificant color, and an unintelligible, pompous title, and sold for sixteen pence, must surely move your contempt and indignation ! Who without abhorrence and surprize, could see sham: *Gasgoin's powder*, without a grain of bezoar, sold at five shilling the drachm, when (by omitting that only dear ingredient) it could not have cost the maker one penny ? Yet these and many such like impositions are daily practised by mercenary quacks, and by them judged necessary and their undoubted right, on account of their extraordinary skill, great care, frequent visits, and trouble in attending and prescribing.

scribing. I have known a gentleman's bill, who sickened on *Monday* and died the *Wednesday* following, amount to above five pounds, tho' his careful apothecary had but a street's breadth to cross between his shop and the patient's lodging. It is more than probable, that if the *unhappy sufferer* took to the value of his bill in medicines, it was the cause of his death, and would, tho' he had the most athletic constitution; but to acquit his apothecary of *this murder*, every one of the profession must confess, that no man could well require or consume medicines to that value in the time. Then what physician could expect so much for his attendance in the ordinary manner for so long?

It must be allowed that all artists have a just right to charge upon their wares, the necessary expences and trouble that attend the preparing and vending them; but those of apothecaries in the sale of their commodities without doors, they have unnecessarily and unjustly brought upon themselves, for the most part; so let the world judge their merit, in imposing such an iniquitous tax upon the public.

Some perhaps will in good-nature, urge in favour of their worthy apothecary, *that for a bill of ten pounds he is often put off with five or six.* A modest, humble creature! His merit as well as demerit, is best known to himself.—It is true some apothecaries may think themselves well paid with half their bill, and it is not improbable they often are too well. For while they can swell their accounts to what size they please, by the quantities of medicines they prescribe, and charging what they will, it is likely care will be taken to suit the bill to the humor of the customer, so that it he should pay but a fourth part, they are sure to be no losers. But which of them will remit one penny of their bill on their own accord, be it ever so highly rated, to such as do not wrangle for it? And is not whatso-

ever they receive over and above the real value of the medicines *justly* disposed of, the most base and wicked extortion? — Such *apothecaries* would probably join in the impious breathings of GARTH's *Diasenna*, if they thought their goods were too low rated.

Thrice happy were those golden days of old,
When dear as *Burgundy* ptifans were sold ;
When patients chose to die with better will,
Than live to pay th' apothecary's bill.
And cheaper than for our assistance call,
Might go to *Aix* or *Bourbon* spring and fall.

Dispensatory, Cant. iii.

The extraordinary, unlimited gain' arising from these horrid usurpations, has now tempted the apothecaries utterly to forsake their proper and immediate office and duty. For instead of pursuing the true means of learning *pharmacy*, (reading the Works of the celebrated writers upon that subject, such being generally in *Greek* or *Latin*, languages to which most dealers in drugs are entire strangers,) they have totally neglected and forsaken it, and in the room of such authors furnished themselves with only some vile *English dispensatory*, the despicable *cob-webs* of some poor illiterate wretch, who quacked for a livelihood and spun these poultry traps for ignorant, unwary *Flies*. Such were the memorable *star-mongers* and voluminous *quacks*, *Culpeper* and *Salmon*, and the erroneous, conceited *scribblers*, *Quincy* and *Alleyne*; whose *dispensatories*, *practices of physic*, and other such like fallacious *quack-books*, (which will not bear reading by any that have read the originals, being calculated only for such mean, illiterate reptiles, as addict themselves to that vile, pernicious Trade of quacking,) can but prompt a man to think he understands *physic*, and practise it, when a better education must convince him of the contrary,

contrary, and make him tremble at the thoughts of the stupendous task.

Thus has *Pharmacy* been perverted and debased. For tho' held by the antients in the second rank, yet is it now deemed the *last* and *meanest* of the three branches; and indeed under the present mismanagement and depravity, it may of all trades be reckoned the vilest and most despicable; and instead of being useful, it is become apparently destructive to society. A footman or porter may now a-days pass for an apothecary, we see shops daily served and attended by such, or ignorant women. I have known an apothecary's shop served by a journey-man of a certain mean mechanic trade, who knew not a letter in the alphabet. Nay, a wretch who conversed more with brutes than men; the stable-tender or groom of a certain eminent apothecary, has been exalted from rubbing of horses heels, to attending his master's table, and thence to wiping of compters and pounding mortars; and being translated from his master's to a shop of his own, acquired so much craft as to pass for an apothecary, lived in repute among his neighbours for many years, and died not long since in very considerable circumstances. Hence the calling is become so vile and scandalous, that few, besides the meaner sort, put their children to learn it, and so contemptible are those after a most servile and tedious apprenticeship, that a journeyman taylor, or shoemaker, or any of the meanest handy-craft trades, shall get better wages than a journeyman apothecary, of ever so good understanding in his profession, the most ignorant being capable of serving most of our common shops, which consists chiefly in retailing medicines made up by a nominal druggist, as incapable of preparing, as an apothecary of prescribing them justly; or bought from a poor, ignorant herb-gatherer, who both frequently sell one thing for another of ever so different qualities, which impositions are implicitly over-

over-looked by master and man ; neither thinking the knowledge of simple or compound medicines material, or necessary, nor their preparation or composition his proper occupation, they lay themselves out for practising physic and chirurgery ; for which as well as their own profession, the reading a *false English dispensatory* is reckoned a sufficient qualification. So, quacking being the principal busines of a *modern apothecary*, he generally goes thro³ that himself, therefore needs no judicious *emanuensis*, any raw-boy being soon made capable of the ordinary busines of his shop ; for which reason, rather than pay journeyman's wages, apprentices are multiplied at any rate, and at all hazards. Whence we come to have more apothecaries' *shops* than any city in *Europe* in proportion : We are within eight or ten equal in number with those of *Paris*, which I think is allowed to be six times as populous as *Dublin*.

But this fatal degeneracy has now made such a progress, that we really forget or know not what we should be. For regardless of the worth and dignity of our art and of the public benefit, the apothecaries have neglected and abandoned it, and in the vain pursuit of another, (like *Æsop's dog*) *quitted the real substance for an empty shadow* ; so, losing their art, have dwindled into vile, fallacious quacks, vain and audacious pretenders to physic and chirurgery, and destructive hawkers of medicine. The very method of educating youth in this calling, is either quite forgotten, or, so far perverted and changed from what it must have been heretofore, that it is by great accident if ever we happen to see any one of common understanding in that profession ; few having more than the undeserved name of *apothecary*, and that only because he lived in some mean, servile station for a time, with one of that appellation. These pretenders are above the ordinary busines and attendance of a shop ; that with them is quite out of the question ; *they fly at higher game.*

You

You may see some of these *would-be doctors* in all parts of the town in quest of prey. One dressed with all the formality of a prig, another affecting a dirty slovenly mien, and an unnatural, fullen grimace, instead of the natural gravity which must necessarily possess men of understanding in the important practice of physic. The first shall assume a most pedantic, dogmatic air ; the second, an ill-feigned, awkward, *hippocratic* leer : and either shall smell, *taste*, or inspect excrements, examine the visage and tongue, and feel the pulse with great solemnity ; then, in a long spun, uncouth jargon of ill-chosen, unintelligible, technical words, enough to raise the admiration and puzzle all the nurse-keepers in *Christendom*, shall ask a poor languishing patient, a set of tedious, impertinent, common-place questions, which he cannot possibly understand, and consequently cannot answer. But the wily quack, with a self-sufficient look, and a weighty, revolving *bumb !* — cries, *so, — ay, — very well, — bemb,* — *I thought so, — I apprehend you,* and so forth. Then armed with fatal pen, ink, and paper, he prescribes largely, some stinking, mothered waters, fermented firrups, pernicious burning spirits, ingrateful, medicated brandy-juleps*, or at best, *unwholesome and unsavory punch*, which the prescriber (to whom indeed their worth is solely known) calls *specific* or *alexipharmacic*, and takes care often to repeat, because he would not have his patient *die for want of a cordial*, (as it is termed) or rather, that he may sell his wares and have an opportunity of charging for his visits ; tho' he does not know, but he hereby in effect signs the poor sufferer's death-warrant, tho' he meant only to draw a *small bill* in his own favour. Yet ask this mighty *sham-doctor*, how the meanest compositions in his shop are made ? whence this or the other simple ingredient ? what it's

* G. Harvey.

it's distinguishing marks and characteristics ? or the like ; I will venture to answer for him rather than betray his ignorance, he will confess *he bought them from some honest druggist*. No, no ; he does not stoop to such mean things, *he practises physic* ; like **GARTH's Colon**,

In trifling shew his tinsel talent lies,
And form the want of intellects supplies.
In aspect grand and goodly he appears,
Revered as patriarchs in primæval years.
Hourly his learned impertinence affords,
A barren superfluity of words.
The patients ears remorseless he assails,
Murders with jargon where his medicine fails.

Dispens. Cant. ii.

Let us now take a further view of such an apothecary and see how he can teach pharmacy.

The apprentice of *such a master*, begins with a small smattering of grammar rules, and sometimes none ; which he (least *Tyro* should soon discover his ignorance and illiterature, or in time out do him) judges sufficient. His fund of sense, genius, or other abilities, are never considered, being indeed but trifling to a *modern Apothecary*, for a little acquired craft may make a mere block-head, or even an *Idiot*, pass for an *Apothecary*. His apprenticeship commences, with the servile drudgery of the most abject slave ; as for instruction of any kind he must not expect it, his master, who shines among his nurse-keepers and co-equals, had none : So that to learn his trade, the only prospectle ft, is to follow the good example of master, which in this instance is not attended with much difficulty, and therefore requires but few documents. For altho' he deigns to suffer his vassal to make up some few physicians prescriptions, (out of pure complaisance to the elder brothers of the faculty of physic, or insuperable love of

peſeſ,)

self,) yet he never pollutes his own delicate hands with any preparation ; his fingers are made for nobler purposes, *feeling of pulses*, (in other words) *pick-ing of pockets*. Nor does he think it needful he should, when from certain *half bred* or *mongrel apothecaries*, falsely called *druggists*, he can buy almost every preparation or composition, or rather *substitutes* for any, *cent. per cent.* cheaper than any honest man can make them ; nothing need be wanting while there is any thing of the same or like appearance in the shop. The poor deluded boy is told, that master by experience knows this or the other base and foreign substitute to be equal, if not the same, with whatever he is pleased to vend it for. Thus is he to learn his future occupation !

At length the slavish apprenticeship ended, the miserable, unedified drudge of a vile quack is now become a master.—Of what?—Why of a shop only forsooth.—See him already by example, if not by precept, thorough paced, not only in the little mean insinuating artifices and tricks of quacks and ordinary *haberdashers of drugs* ; but likewise imbued with the base penury and sordid craft of pinching on the one hand the industrious wretch, who for want of better employment seeks a miserable livelihood, by gathering the herbs or reptiles of the earth, and extorting on the other, an exorbitant profit from the pitiful farthing of the most necessitous. Having observed it needful while an apprentice, he chiefly studied the *glutia medica*, the querks and artifices of *physic-jobbers*, rather than the necessary qualifications of a good *apothecary*, to which he is yet a stranger. He therefore apes something of the dress and mien of a physician, well knowing, that *esteem is oftener gained by artifice and outward appearance, than by real worth or merit* ; and then by fawning, cringing, dissimulation, and the like, gains a set of acquaintance and customers in low life, by whom he is extolled, till, by degrees or accident, he rises a step higher, and so is

is soon (like *Moliere's* faggot-maker, tho' not always by stripes) *persuaded to think himself a Doctor*. His customers he now calls *patients*, in imitation of his superiors, and had he called them *sufferers*, the appellation would be still more expressive and significant.

His sole care is now to vend the destructive magazine of perishable shop-trumpery, which is not very difficult to effect, when the quack has pushed himself into some repute with the vulgar, among whom he must have many *Jack-calls*, by whom the skilful physicians and chirurgeons are artfully decried and falsely vilified, who might by abstinence, diet, air, or exercise, or by dexterity of hand or bandage, perhaps without the use of a shop-medicine, cure sundry maladies, for which the *physic-shopkeeper* bears them mortal enmity, as they do not promote his trade unnecessarily, with the usual fallacious insinuation of *his unparalleled skill and judgement in physic and chirurgery, and his thorough acquaintance with the practice of both, from the number of recipes, which come into his hands*: but above all, *the cheapness of his advice and attendance*; being said to charge no more than *the bare prices of a few necessary, cheap Remedies*; which is the principal recommendation. His character thus established, he has frequent opportunities of putting off his commodities at any rate, and this he takes care to improve by raising so many dangers and difficulties, that he keeps his poor *sufferers* in as wretched a state of dread and dependence, as the wicked and ignorant quack *Cottier* did the timorous king of *France* *. These abject vassals of an *usurping apothecary*, (to palliate, cure, or prevent some imaginary or fictitious distemper,) are never to cease taking medicines, being persuaded *they cannot live an hour longer than they are crammed with some unnecessary nauseous part or other of his decaying shop-lumber*, till after many filthy, expensive drenches, harrassed natu-

sinks under the oppressive weight, or by her own strength breaks the bonds, and he is pleased to take the honor of the cure, and to pronounce them *in statu sano*. If a bleeding or any chirurgical operation should be wanting, provided it be such as his ignorance and incapacity may not too plainly appear in, and wherewith he may consume plenty of *Styptics*, *Litus's*, *Balsams*, *Liniments*, *Ointments* and *Plasters*, it is done by the apothecary, *citó*, *tutó*, & *jucundé*, and that too without the least help of a chirurgeon; which the sick are told to be quite unnecessary, as physicians in other cases; the fees of both being pretended to be saved by the quack. As a thrifty ale wife, to avoid excise, gave her customers ale *gratis*, paying two pence for the *toast and nutmeg* put into each quart.

Moreover to confirm the populace in their vain notions of their apothecary's judgement in physic, he has generally the artifice to become the basest *plagiary*. For among the customers, he uses on every occasion, or rather *abuses*, the prescriptions, and even borrows the very words of the family-physician. Thus he steals the doctor from himself! (if I may be allowed the phrase) insomuch, that when by force he is called in and consulted, it is ten to one the prejudiced patients will say, *that the doctor said and directed the very same things which the worthy apothecary did before*, in this or some other case, which they think, or perhaps are told, was the same.

I cannot here overlook that most abominable practice of *some apothecaries* and *druggists*, who not only personate one another, by assuming the name of their neighbouring brethren, in order to steal their customers, but a certain *audacious quack* has been known to personate *a late physician of his name*, and to recommend himself after as an *apothecary*. These base artifices lead them to make repetitions of prescriptions which they never saw, being on another's file. How fatal such horrid guess-work must often prove, to the patient and prescriber, is easily judged;

judged ; and how late a gentleman of figure suffered by this sort of *chicane*, as well as his physician, I shall not say, lest it should too far injure a certain pert, young quack apothecary, whose rashness in this instance, will, I hope, prove a warning to him for the future.

Thus admirably equipped with craft and artifice, and with impudence and assurance, (the inseparable attendants of ignorance) this *monstrous, amphibious animal, this wretched cobler in medicine*, who has not in reality a single qualification for a *physician* or *chirurgeon*, nor perhaps even for an *apothecary*, vainly pretends to the knowledge of the *three*, and so takes upon him the sole care and management of the sick in all distempers and disorders ; *acute* or *chronic, physical* or *chirurgical* cases are all alike to him, well knowing that *his incapacity is not obvious to the unhappy parties concerned* ! he hardly persists in his malpractices, being blinded with *ignorance*, prompted by *avarice*, and having his conscience hardened by an early contracted *habit of iniquity*, till he has rendered the unhappy *sufferers* immedicable ; and then (seldom or never before) permits a *physician* or *chirurgeon* to be called in ; or rather, if he can, brings in some *poor pretender* to, or *mercenary tool* of, either profession, to justify his apparent misconduct, or to take the honor of giving the tortured *sufferer* the *Coup de Grace*.

I shall beg leave to give one melancholy instance of this kind out of many. A certain unfortunate man, who too much confided in the boasted skill of a bold presumptuous quack, committed himself to his care for a certain, slight, secret disorder : The apothecary judging it the only way to make a penny of the patient, proceeded to administer medicines by *wholesale*. For within the compass of three months he gave him above forty doses of mercurial *physic*, with sundry other costly drenches, which brought a considerable flux of humors upon the affected part : to which he then made divers unctuous appli-

applications, till at length it became cancerous. Lastly he had recourse to salivation, but with no better success, the patient grew sensibly worse : Yet the Quack to dispel the growing doubts and suspicions of the poor abused man, called in a *reputed physician*, to justify his mal-practice, and assist him in the cure. The *doctor* being unable to satisfy the unhappy sufferer in his distrust of the *quack*, he called in better assistance, and had his life with great difficulty saved, by the amputation of the distempered member. Notwithstanding all this gross abuse of the miserable patient, this unworthy apothecary, who may be presumed to be the principal cause of the greatest evil attending this case, makes a most extravagant large bill, with a charge of twenty *shillings* to his coadjutor the doctor, annexed.

By these and such like unnatural transgressions, is the *apothecary* led out of the way of his duty, and bred an utter stranger to all parts of his proper calling. By this vile craft he gets his bread, no wonder then he should be firmly attached to it. This is all he learns, all he knows, all he practises, all he teaches : And this he finds sufficient to recommend him : He indeed generally takes care to secure an interest in some *party* or *club*, whether *religious* or *politic*, no matter with how little *reason*, provided he espouses and defends their principles with a good stock of *blind zeal and violence*, he is sure of the *Society's* favour, so he may securely neglect his *true profession*. He therefore employs his whole time in quacking or stroling over the town in quest of prey. For to avoid the dangerous imputation of having nothing to do, *no practice*, (as the phrase is,) he must never be found at home ; not to be seen in his noisome shop except by accident to prescribe for some sudden emergency, or perhaps sometimes to edify by reading over his own *ill-chosen, stolen recipe's*, there carefully filed more for *shew* than *use* : That done, he must hurry forth, and rush thro'

the streets as if he had so many calls, that he cannot tell which first to answer : While the principal part of his business, furnishing the shop and serving the wretched customers, is left to some mercenary *sham-druggist, a miserable herb-gatherer, and a raw apprentice.* The very *Druggist*, who in all other nations in *Europe* is but *Pharmacopola*, a mere drug-merchant, is with us, not only a *physician and chirurgeon*, but also a *Galenic and Chemic apothecary ; a seller of druggs, medicines, vernices, oils, paints or colours, poysons, &c. a Jack of all trades, and in truth, master of none*—For bad as the usual education of an apothecary may be, if it could be yet worse, he may make a good modern druggist enough. And it is demonstrable, that, among the many who assume that name, there are not above two in *Dublin* that have any right to it. These who are, if possible, worse quacks than the apothecaries, and generally worse qualified in every respect, were the first who introduced that blackest villainy of sophisticating, and debasing of medicines to gain fame and applause by underselling their honest brethren ; and you shall now find most of them ready to make up the prescriptions of physicians and chirurgeons, brought to them by the ignorant vulgar, (who alone indeed intrust them with such,) at any rate they are offered, even tho' they cannot read them, and tho' they may be composed of sundry medicaments to them utterly unknown. How must the unhappy patient and prescriber suffer, whose prescriptions fall into such unworthy hands ?

Thus wretchedly is *pharmacy* taught and practised now a-days. How foreign to the manner of the *antient, true apothecaries*, is, I hope, evident from the foregoing ; and how contradictory to reason, justice, and common sense, is, I believe, to every rational unprejudiced man, obvious. Yet, that under the present fatal mismanagement, it is, and must continue so, is, I think, most demonstrable. For a man who takes

takes the greatest pains to learn that art, and acquires the most extraordinary knowledge, and all the requisite qualifications therein, and ever so strictly, and diligently attends to the *regular calls* of his profession, and discharges the *duty*, and *proper office* of an *apothecary*, if he does not most audaciously and adventurously, quack in all cases without distinction, he is surely deemed but a *blockhead*, and may remain to the generality unknown, and starve : or perhaps have the comfort of being reputed, in his narrow circle of acquaintance, *a good, honest fellow, but no apothecary* ; that is to say, *no quack* ; and is therefore despised, because, he has the candor and integrity, not to intermeddle with any business, but his own, nor to attempt things beyond his sphere. In short it is not such a man that is *with us* deemed an *apothecary*, no, it is the most despicable of all human beings, a wretch ignorant of all arts, yet pretending to the greatest ; a false, dissembling sycophant, that poor, shallow mimick, or untowardly ape of a physician, chirurgeon and apothecary, the vile, deluding quack ! Where then is the encouragement to excel in this art, when the most ignorant of it, are, by the generality, preferred, and most esteemed ?

I am well apprized that these will appear strange innovations to some of the brethren, as well as to those who have not only let the *pretended apothecaries* into the secrets of their families, but also indiscreetly committed the care of their health and lives, into such unworthy hands, and suffered themselves to be blindly, and implicitly governed by them. Yet even those upon impartial examination, and serious consideration, will find them literally just and true. It requires no great depth of sagacity to sound these ambitious pretenders, and to find how unfit and incapable they are, to practise the profession, whose name they undeservedly bear, and how much more that of physic and chirurgery,

How many are there among us so palpably ignorant, in a most material branch of their professed art, as to be daily imposed upon, not only by their druggist, but even by the simple herb-gatherer, who both frequently impose upon them, one thing for another, tho' ever so different in their nature and properties? Is it not notorious, that *shapsia* or deadly carrot, for turpeth, gout-wort, or herb gerard, for master-wort, *English* black maidenhair, for the black and true maidenhairs, spurious germander, for ground-pine, burnet, for faxifrage, male fern, for osmond-royal, fig-wort, for solomon's seal, wall-pepper or stone crop, for small houseleek, cypress for favin, stinking black horehound, for the white, bugle, for betony, and many such like pernicious impostures, are daily palmed upon the *ignorant apothecaries*, notwithstanding the most apparent disparity in their outward appearance, as well as in their virtues and effects? And is not the common excuse of *our apothecaries*, upon the *examiners* condemning any drugg or medicine, in their shops, that they bought it at an high price from Mr. such an one, a druggist? Did not about sixty apothecaries and druggists, oppose the *Bill for preventing Frauds and Abuses in Pharmacy*, and jointly assert many gross absurdities and falsehoods, and make many most frivolous equivocations, in their case offered to the House of Peers, in the year 1735? did they not therein call castor *a cod*, and cassia fruit *a cane*, like *a sugar cane*? and what less than the darkest ignorance, or the most consummate perversity, could thus prompt them to trifle with so august an assembly? Did not two apothecaries of some eminence, in the year 1739, advertise Mrs. Stephens's *medicines*, for sale, long before the materials could possibly be had, or prepared? and did not these worthy brethren afterwards employ a certain, abandoned, infamous quack, (once well known to *watchmen, and mid-night magistrates, to bailiffs, proctors, church-*

church-wardens, &c.) to vilify him, *whom they only suspected*, to have detected their abominable deceit? In charity, I hope, and am willing to believe, all this, and more, the effects of pure, confirmed ignorance; which, tho' equally pernicious with design, there is not at present the least prospect of removing: For since it is not worth while to spend any time or pains, to learn a disregarded profession, by which so little profit is to be gained, as by *true Pharmacy*, (the bare name being enough *to garnish the quack, nay, to dub him a doctor in his own, and the vulgar eyes,*) it can hardly be otherwise expected, as the livelihood of most apothecaries, now a-days, depends upon their hawking about and quacking with such of their weak, unguarded neighbours, as suffer themselves to fall a prey to their perfidious craft and avarice.

It is most wonderful, and to those who are not thoroughly acquainted with the proper office and duty of an apothecary, inconceivable, what an abject state of depravity and degeneracy the apothecaries of this age are fallen into; and such in time must be the case of physic also, from the necessary mutual connection of each art, with the other: But moreover, it cannot be long worth any man's while to spend *the best part of his life, and much of his fortune*, in tedious, laborious studies, deep and accurate researches, into the most hidden, and remote recesses of nature, when no distinction is made between him, and so base a pretender to physic, as an illiterate, unbred apothecary; more especially when it is in the power of such, to prevent his doing the good he seeks in his profession, to elude his best skill, and frustrate all his hopes and intentions of cure, by ignorance, dishonesty, or neglect, which must soon bring him, and the whole art, into the utmost contempt.

But it is yet more surprising, that these very men should so far have deceived the public, as to have

their pernicious quacking and tampering, with the health and lives of the people, still countenanced by many persons (in other respects) of good sense, and some of the best families. To see an *bawking apothecary*, that worst kind of *mountebank*, in dearth of trade, run strolling thro' the streets, gaping for prey, must surely move the contempt and indignation of every considerate man, who knows *how he should be employed*. Yet pursue him but a little further, you will find the cringing vagrant, a still greater object of your disdain. That learned physician, and ingenious humorist, Dr. *Mandeville*, gives the following true and lively portraits of one of these mercenary *seekers*. *

" I have seen (says he)
 " an apothecary in an idle afternoon, go to the house
 " of a person of quality, who made use of him ;
 " there happened to be none at home, but children
 " and servants, who from the highest to the lowest
 " were in perfect health ; if here he came for
 " busines, (you'll say) he was disappointed, but you
 " are mistaken ; the courteous gentleman, with an
 " engaging familiarity, accosts every servant in the
 " house, and puts off a purge to the cook, a vomit
 " to the butler, a box of pills to one of the foot-
 " men, and a pot of *Lucatellus*'s balsam to old
 " nurse. The children absolutely refusing to take
 " any physic, at least inwardly, he coaxes little
 " master into the use of a charming dentifrice,
 " and a sweet-smelling collyrium, to rince his
 " mouth with after it, that shall preserve his teeth,
 " and make them look like ivory, tho' he should
 " eat nothing but sugar and sweet-meats all the
 " day long ; to pretty miss, he'll send a lotion for
 " her hair, and a (cosmetic) paste for her hands,
 " that shall render one as bright as silver, and the
 " other whiter than snow ; with a beautifying wash
 " to the maid, that assisted in persuading them.

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* *Treatise upon hypochondriac and hysterick passions*, p. 216.

" The affable Gentleman has every body's good word ; the children are pleased, the servants commend him, my lady is obliged to him : and ten to one but the first opportunity of driving that way, her coach stops at his door, and she thanks him for the care he took of her family in her absence." — *Admirable encouragement to vending the shop trumpery at any rate, unnecessarily !* Sure every rational, unprejudiced man, must judge this, and such like mean artifices of apothecaries, more culpable and more pernicious to the public, than the paltry harangues of a brawling mountebank, to a rude rabble, as such only will hear him ; whereas the former have recourse to all ranks and degrees of men.

How the more rational and better sort of people come to acquiesce under these heavy grievances, in the most tender point, and suffer the greatest impositions in matters of the last moment, without ever having even attempted a redress, is astonishing : But as it must now be owing to their not knowing the abuses and cheats, *long custom having made them familiar*, it is to be hoped, that, when the evil consequences thereof are laid open, every good man will concur in taking some measures to prevent them for the future.

Sure there is nothing more inconsistent with common reason, than the taking apothecaries from their proper office and station ! I never saw a patient that was not desirous the *apothecary* should *himself* prepare whatsoever medicines should be prescribed for him ; and if he is employed in *quacking*, and his time devoted to that alone, how is it possible he can see his customers justly served ? But if none other evil had arose from the taking apothecaries from their occupation, and encouraging them to quack, and thereby to neglect their immediate office and duty, than subjecting the public to the grievous tax, of consuming as much of the apothecaries drugs, and at such a rate, as

they think proper, methinks that should have deterred men from it sufficiently. Should any of the most reputable and creditable artists, or tradesmen besides, be employed in furnishing a family with their goods, will any one say to such, *come and see me, examine mine house, and send me as much of your commodities as you think requisite for me?* I believe no man, in his senses, could be so weak: And yet, why should people repose more confidence in apothecaries, than in other tradesmen, in the like instances? they are but men, and altho' there may yet be among them *some not unworthy of Sparta, in her primitive purity*, yet this is too great a trust, to be repos'd in mere mortals: For they have shops like other tradesmen, and these too furnished with *perishable wares*, which they must, therefore, vend the more expeditiously: Had they capacities for *practising physic or chirurgery*, they ordinarily have no gratuity allowed them for the supposed good they do, or for their trouble, but what they procure for themselves, by charging it on their medicines, which, with giving them in great, unnecessary abundance, they assuredly take care of, being left entirely their own carvers. And were they as well qualified for that weighty undertaking as *Hippocrates*, it is hardly to be expected that they should be such *saints*, as to refuse or neglect procuring payment or recompence for their extraordinary labours, or what they call their *art*, especially while it is left at *their option*; the ready way to effect which, is, by stuffing the unhappy sufferer with much nauseous, and (probably) unnecessary or improper medicines, even in such slight disorders, as nature, without their impertinent interruptions, could better throw off, by her unassisted powers. — “ If a fish-monger, “ or poultreer, (says *Mandeville*,) should go to a “ customer’s house after dinner, when the master and “ mistres were abroad, advise the servants, one to “ a fine salmon, the other to a dozen of turkey “ pouls,

" pouts, and send them home accordingly, would
 " you not think them very impudent rascals?"
Most certainly: And yet the officious quack apothecary is equally guilty with either, both having put off their wares, where they knew they were not at all wanting or necessary, with this aggravation, that the former gave some things useful, and of known value, but the latter things entirely useless, at best, of small intrinsic worth; to the taker, of none, unless by accident, and perhaps very dangerous and hurtful.

The cause of the groundless notions usually entertained, of the skill and judgement of apothecaries, in physic and chirurgery, and the cheapness of their advice, is a vain, vulgar prejudice, industriously propagated by artful quacks, and their servile tools and emissaries. From the apothecaries, seeing the practice of physicians and chirurgeons, in sundry distempers and disorders, with the great numbers of the prescriptions of both, which necessarily come into their hands, it is insinuated and imagined, that they must understand the whole art of healing in all it's parts, as well as those who have made it their sole study and practice, for many years: And this is the reason, why apothecaries are usually first called to the sick, by which means, they are in fact rendered the *jack-calls* of physicians and chirurgeons; in as much as it is manifest, that they often make work for both, by multiplying patients, and rendering many cases worse, and more inveterate, than when they were first consulted, if the unhappy sufferers have the good fortune to outlive their expensive, injudicious tamperings for any time.

It may now perhaps be advanced as heretofore, upon another occasion *, and it must be allowed, that a thorough bred, experienced apothecary, who knows the faces, qualities, and vertues, of simple and compound

* See Observ. on the physician's Bill, 1725.

compound medicines, (to which I must add, who understands anatomy, and the animal œconomy, and knows the histories, causes, and diagnostics of distempers, without which, he can never be capable of making just observations on the effects of remedies, or curing diseases,) *may be as safely confided in, as the graduate of any university*: And the same may be said of an old nurse-keeper. — It is certain, a gang of *lawless thieves and vagabonds*, founded the greatest common-wealth in the world, and promulgated the wisest human laws for the punishment and suppression of vice, and the encouragement of virtue*. But sure we are not to expect the like from every set of *Banditti*? Nor suffer any evil to be done, that good may accrue? Why then should the present race of apothecaries, who neither have, nor can pretend to the requisite qualifications of physicians, or chirurgeons, be allowed to sport with the health, lives, and fortunes of the public, at their discretion? When it is evident, they should not be trusted with the care of the sick, in any disorder, nor even in their own profession, till they have first given open proofs of their understanding it. Nothing should induce you to give any men such an unreasonable, and unjust toleration. Our happy constitution is such, that no man, or body of men, can make a monopoly of any art, science, or trade: For a meritorious person, amenable to the laws, may be admitted to profess, or practise any occupation whatsoever. If any man is conscious of his knowledge, or capacity in medicine, he may present himself to the college of physicians, and sue for a licence to practise, which, having answered the proper examinations, they are obliged to grant, they cannot refuse: So that an apothecary, or any other person, found duly qualified, may obtain a licence, to practise physic: But we find none of our apothecaries have, in any instance,

* Vertot's Rom. Revol.

instance, legally qualified themselves for such a weighty undertaking, most contenting themselves with no better a *Diploma* than a *shop*, garnished with sundry empty, painted, and labelled vessels, with it's windows adorned with monstrous, or strange, useless animals, as tortoises, toads, &c. how then are they to be trusted in matters of such importance? Are they not rather to be industriously avoided, and justly despised?

To attain to a competent knowlege in *pharmacy*, and afterwards to discharge the *office*, justly and faithfully, must require more time than *apothecaries* can properly spare, who attempt arts, for which they have laid no sort of foundation: And as none of them, have performed any of the requisites for a *physician*, or *chirurgeon*, and few, or none, even those for an *apothecary*, I think it as arrogant, and as impudent in an *apothecary*, to presume, to practise *physic* or *chirurgery*, or to pretend to any skill or judgement in either, as it would be in the most illiterate *printer* or *bookseller*, to pretend to the *Mathematics*, or any other branch of *Philosophy* or *Literature*, merely because he printed sundry learned books, in these sciences, for sale; or, for a *color-grinder*, (to use *Mandeville's* words,) to *painting*, only because he grinds the several colors, and perhaps prepares the pallate and pencils for his master, and sees him frequently paint. The *apothecary*, it is true, may frequently see patients in all manner of distempers and disorders, hear and see the most judicious *physicians* and *chirurgeons*, accurately examine their various complaints, may peruse their several prescriptions, nay prepare and administer them. The *printer* likewise may see the best manuscripts of the most celebrated authors in all branches of *Philosophy*, may print and reprint them, and have thousands of impressions to dispose of: And the *color-grinder* also, may daily see his master execute his best skill and most sublime designs in *drawing*, and may (by his

his directions) make up and lay out in due order upon the pallate, the several proper colors, and also provide the several necessary pencils and tools for *painting* the same. And yet, notwithstanding, each must probably remain in the darkest ignorance, and continue utter strangers to *physic*, *philosophy*, and *painting*, until regularly initiated into the *rudiments*, and duly and methodically instructed in the *several rules* of the respective arts; and all that such may be said to know in them, are a few technical words, learned by rote or accident, which can serve only to impose upon the ignorant. These *impostors*, it is certain, may shine among their kind, and even deceive men of sense and learning in other matters for a while, but they can never stand the test of proper judges. Happy indeed, were it for the public, had the *pretenders* to these three arts, been equally conspicuous to the world. If so, it is more than probable, there would be more *botches* observed in the practice of the pretenders to *physic* and *chirurgery*, (to say nothing of downright *murders*, which are usually hid by the friendly grave-digger) than there are to be seen in the *nocturnal works* of the printers of *last speeches* and ballads, or in the vile, insignificant daubings of the *pretenders* to *painting* on the paltry signs in all the streets in town.

As to the *cheapness of the advice of apothecaries in physic or chirurgery*, it is a most false and deceitful insinuation. Its value will best appear by considering their qualification. If it appears they have none, as I think it must, what is their advice worth? Should it not be avoided as a pest? I know it is objected by some, and made a handle by quacks, *that the fees of physicians and chirurgeons are too high, and that people in low life, cannot purchase their attendance or advice.* I have in some measure answered these objections already,* I shall endeavour to obviate them further. It is true, there is no nation in the world

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at this time, that so justly prizes the merits of physicians and chirurgeons, or so nobly rewards both, as *Great Britain and Ireland*: For from our natural freedom, no restraint has been laid on rewarding just deserts in any instance. Yet notwithstanding, there are no people in *Europe*, even where fees are lowest, that may be better attended than those of these Kingdoms, did not officious, selfish quacks interfere.

There is no set of men, who deserve better of the public, than physicians and chirurgeons; none have been and are more publicly and privately beneficent. The extraordinary munificence of Dr. *Radcliffe*, and Sir *Hans Sloane* in *England*; of our Sir *Patrick Dun*, and Dr. *Stevens*; with many others, are monuments which must attest this truth to futurity. And I can affirm on the other hand, that I never met with an object so despicable, that could not command the advice and attendance of numbers of physicians, and chirurgeons of the first rank, upon its own terms: And that I have often known physicians to refuse fees from tradesmen of good circumstances, and yet attend them constantly for many days after, without any other obligation than that of humanity. Is not this much better than to be subject to pay rigorously the smaller fees, and to have the bodies liable to be detained, dead or alive, for payment; as we hear it is in some neighbouring nations? Our poor have no reason to complain in this instance, of any thing more than the oppression of quacks. The houses of our physicians and chirurgeons are open to, and they are as ready to succour, the poor sick as the opulent. Are not our *Infirmary* and *Hospitals* attended *gratis*?— It were well for apothecaries, as well as chirurgeons in low life, that none but real objects could partake of these Charities.

III. I now come to my third head, namely, to lay open some of the most considerable frauds and abuses of apothecaries and druggists, and to point out some of the most pernicious *sophistications of medicines*, with the evil consequences thereof.

It is commonly said, *that physicians and apothecaries kill more than they cure.*—However ludicrous or satyrical this phrase may sound, it is a melancholy consideration, that the ill-natured sarcasm often proves just, and is likely to continue so, until the *apothecaries and druggists*, are brought under some proper regulations, which may restrain them from *hawking and quacking*, and confine them within the just limits of their *respective callings*. For into such an abyss of depravity and degeneracy, are these men fallen, by their grasping at matters beyond their sphere; that now (thro' ignorance or dishonesty) there is scarce a medicine of any worth to be had genuine; the knowledge of many of the most valuable simples is utterly lost, and in their room, some vile and foreign counterfeit, as quacks for apothecaries, foisted upon the unwary Public. *For corruption by long impunity hardens the offenders, multiplies the number of the guilty, and is now so far from being deemed scandalous in this way, that it is really become fashionable.*

Before I proceed to wilful errors, it may not be impertinent, first, to expose some arising from the ignorance and illiterature of apothecaries, being probably the principal causes of many more, and which may produce as evil consequences as any others.

The works of the most authentic medical writers, are in *Arabic, Greek, or Latin.* The best known names of distempers, as well as of medicines, the *exotic druggs* especially, are in these or some other *foreign Languages*, often *compound*; and most of the technical words in medicine, are also *compound*, tho' mostly of *Greek and Latin.* We do not as yet know

know an *English name* for one vegetable in twenty. For as physic took it's origin in the eastern parts of the world, and is not as yet truly naturalized to our tongue and idiom ; it has hitherto been found so uncertain and difficult, to reduce the *terms of art*, and *names of medicaments*, into any other tongue than the *Latin*, properly and expressively, that all the colleges of physicians in *Europe*, have not only been obliged to give their dispensatories in *Latin*, but in many to admit an entire *Greek* word or phrase, as being least ambiguous, most expressive and significant. And this is the principal Reason for writing, extemporaneous prescriptions also in *Latin*. This made it necessary for *apothecaries* to understand the learned languages ; and they were in all ages sensible of it ; until of late, some *hirelings* sprang up, who, finding what a propensity people had to *quackery* ; judged they might scribble that way for the vulgar, to gain a livelihood, and so presumed to translate the works of the learned in physic, into the vulgar tongue ; which *false, pretended translations*, being seldom or never read by any that understand the originals, have passed with their manifold errors unobserved to this Day. Among these erroneous, hackney translators, the most celebrated among the apothecaries at present, I may say the most in fashion, is the late famous Dr. *Quincy*, a *Quondam apothecary of London*. Who it is said *wrote for bread in a jail*. What right he might have had to annex *M. D.* to his name, I have not yet been able to learn with any certainty ; unless he followed the good example of his worthy predecessor *Salmon*, who, being called to account for putting these letters after his name, upon the specious title pages of his many volumes of fulsome falsehood and nonsense, it is said, *declared he did not mean them for Medicinæ Doctor, but for Medicamentorum Donator*. In which sense Mr. *Quincy*, and every other *apothecary*, has, no doubt, without leave of an University, a right to use them.

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The ignorance of the present set of apothecaries, and their unacquaintance with the learned languages, puts them under a necessity, instead of observing the original *London Dispensatory*, and preparing and dispensing their medicines thereby, as the KING's *Proclamation prefixed to it enjoins*, to use a spurious translation of that Dispensatory by the aforesaid *Quincy*; in which he has committed the most gross and dangerous mistakes. For instance, in the Sirup of Marsh-mallows, a composition of softening, cooling, pectoral, and diuretic Herbs, &c. He renders *Adiantum album* & *nigrum* (capillary herbs, called black and white Maiden-hairs) *black and white Heliebores*, an harsh, drastic, purgative root, and an acrid and almost caustic and vomitive one, in the room of mild, safe, balsamic Plants, so plainly repugnant to the intended virtues of that medicine! He has rendered *sesquicream*, one ounce and an half, *half an ounce*, even in a composition, wherein there are above six pounds sterling difference in the *expence* of that medicine, when dispensed by the Dispensatory, and the same done by his translation; besides the *virtue* of the remedy's being abated in proportion to what is omitted of the principal ingredient. The same author leaves out several things prescribed by the College Dispensatory, in many compositions, omits directing the several parts of simples thereby directed to be used, and in short, commits many unpardonable errors and omissions too tedious to enumerate, which are swallowed implicitly by the ignorant and illiterate, to the unspeakable detriment of the public. In another of his *pharmaceutic works*, † he teaches the apothecary how to *substitute*, and gives even a list of such things as he justifies the substitution of for others. Among these he says, that *balsam capivi* may be given for *balm of gilead*; *styrax*, for *balm of tolu*; *saffron* for *bezoar*; *bole* for *dragon's blood*;

† His *Prælectiones pharmac.* by Dr. *Shaw*, Lect. ix.

blood, for *carthamus seed* *mustard seed*, and other such like shocking incoherencies. Yet all these, however dangerous and destructive to society they may prove, are in some sort excusable in these who could have known no better; at least they are more pardonable than the many wilful frauds and corruptions, which the *apothecaries* and *druggists*, have been so long accustomed to, that like a liar who has told his false tale so often over, that he at length brings himself to believe it truth) they have so far hardened their consciences, as to judge the most vile and pernicious counterfeits, not only justifiable, but as good as the true and genuine medicines; and so have generously reduced the prices of many compositions, by half less than any honest man can sell them. By which means, several have become such absolute strangers to the very faces of medicines, that they have been known to reject the genuine, when offered to sale, and prefer the most base substitutes or adulterations.

The unparalleled, naked *villainy* of the *English druggists*, which ours, as far as they can, imitate, is the principal cause of the many abominable *sophistifications* of medicines. I am well informed, that these avaricious falsifiers, who are well versed in robbing their KING and COUNTRY, were so audacious and so impudent, as to declare, in a Body before the *British Parliament*; in answer to the preamble of a bill, passed in the reign of KING GEORGE the first, of GLORIOUS MEMORY, " That they did " not vend any unsound, or adulterate drugs or me- " dicines, to the prejudice of his Majesty's good " subjects of *Great Britain*; but that all such they " sent to IRELAND" — And they thought, no doubt, their useless scraps and offals, too good for us; because we find by woeful experience, that the latter part of their wicked assertion, they daily verify. For tho' the *British* privy council did this unhappy island the justice, to retort this answer upon the same worthy set of men, when, by the in-

fligation of their *Irish* correspondents, they opposed the bill, passed here, in the year 1735, and so, unanimously recommended it to the Royal Assent; yet no means has hitherto been found, to prevent this being the common sink of all the corrupt, or decayed drugs of *England*.

The abuse of the *draw-back*, given to encourage trade and exportation in *England*, proves now a manifest injury to the KING's *Revenues*, and an insuperable impediment to following our trade here honestly; which must necessarily be destructive of the health and lives of the people of this kingdom. For the dread of discovery, and due punishment, upon exposing bad drugs to sale in *London*, together, with the advantages arising by the *draw-back* upon sending them to *Ireland*, tho' they were quite rotten and useless, will always be a motive to infest us with the refuse of all their sortments, the very *cullings* of their drugs, nay, the mere *sweepings* of their drug-ware-houses. For when a *Londoner* imports a drug, and pays the duty, he removes it to a warehouse, and sorts it, and what proves so unsound or decayed, that he cannot with impunity, or credit, sell there, he transports to *Ireland*, swearing it to be within the limited time, and consigning it to a proper correspondent. It arrives here, the correspondent receives it, pays the duty, which (if not taxed in our Book of Rates, wherein most drugs are much lower rated than in *England*) it is valued upon oath, by the *Londoner's* directions, perhaps, not as many pence as it was first valued shillings; the duty is accordingly paid, and a certificate thereof returned to the *London* transporter, who is thereby intitled to *draw-back* the duty paid at first importation, for so much as was entered in *Ireland*; except a small matter not exceeding two and an half *per cent.* or thereabouts. So that *Rubarb*, whose duty upon importation in *England*, is six shillings and ten pence the pound, *draws back* upon exportation about six shillings and

and four pence, and most other drugs in like proportion. For this cause, the most vile drugs, which can escape the *examiners* in *London*, are sent hither; the saving the *draw-back*, if they got no more for them here, (where, by the by, a customer is never wanting for such) being a sufficient encouragement. This is so notorious a practice, that our importers often openly confess it, and the *English* merchants are so expert at this trade, that they send their correspondents *invoyses*, with the *draw-back* calculated and deducted from their accounts. I have known about twenty pounds of damaged Rubarb sent by a merchant in *London*, to an apothecary in *Dublin*, upon commission, with directions to sell it expeditiously, for whatever he could. And altho' there was not a single ounce found or fit for use in the cargo, yet a certain great *druggist* bought it, at about a fourth of the then current price of good Rubarb, and dyed it to impose upon his customers.

Familiar instances of these abuses, almost every entry of drugs, and I believe of many other merchandizes affords. I shall mention but a remarkable one made by a late celebrated *druggist*, about the year 1728. He imported eight hundred weight of Jesuits Bark, entered it at the custom-house, valued upon oath, at a groat per pound. The land-officer, * surprised at this strange undervaluation, not knowing the quality of the drug; before he would make a seizure, (which, if undervalued, he had a right to) advised with that faithful, eminent chemist, the ingenious Mr. *Maple*, who, upon examining it, assured him, that it was not worth one penny a pound, having not a single characteristic of the drugg it was entered for, by which it might be even known.— This instance shews the cause, in confirmation of the observations of some learned physicians, † why one

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drachm

* Mr. *Craven*.

† *Harris Pharm.* *Anti-Empir.* p. 190.

drachm or two of *Peruvian Bark* succeeded better formerly, than some ounces now a days.

Thus is the KING most ungenerously robbed of his just revenues, and thus are the health and lives of his subjects endangered, or destroyed, by the iniquitous confederacy of the *English* and *Irish Druggists*, particularly in their gross abuse of that great encouragement to trade, *a draw-back*. And as such vile pernicious stuff as this is daily imported and sold by mercenary men among us, who have nothing to recommend them but their underselling every fair dealer, it is plain a *faithful apothecary*, who chuses the best commodities at any rate, for the good of his customers, and his own *private satisfaction*, must appear a most extravagant extortioner to all such as cannot distinguish the qualities of Medicines, and consequently, *he cannot expect a livelihood by his profession, if he persists in candor and integrity!*

Besides the many impositions we are liable to in this way from abroad, there are many of our own manufacture equally pernicious to the public, of which give me leave to instance but a few.

When *Gum Ammoniac* in the crude, impure mass is sold at about ten shillings the pound, yet is the *plaster* (made by dissolving it in *vinegar* of *squills* and *juice of hemlock*, straining and boiling it to a proper consistence, in which it loses very considerably of it's weight, besides the trouble and expence that necessarily attends the operation) so debased, as to be sold for less than a fourth of the price of the *Gum*.

Galbanum has suffered the same fate. It is a substance of much the like texture with the former, and must be strained or otherwise depurated, to render it fit for use, by which it suffers much the same loss with the *Ammoniac*: Yet notwithstanding, so long have people been accustomed to *fraud* in this medicine, and so familiar is the *substitute* now become, that the generous, genuine *Gum* is utterly rejected by the good-women and others; and so hardened are the

the very *falsifiers* grown in this wicked practice, that the pretended *Druggists* in effect confess it; For I have it under the hand of one of them in a Bill of Rates, *that he sells the strained for litile more than one third of the price of the crude Galbanum.*

So base is the counterfeit sold for *Balsam Capivi*, which is a natural *tear or juice* issuing upon incision of a certain tree in *America*, that it is openly sold with us for less than the King's duty upon importation of that drug.

When such barefaced villainy is committed in the simple drugs, what may we not expect in the compound Medicines? Since the more compound or mixed a remedy is, the better opportunity there must be for cheating, by substituting the basest for the best, or leaving out the dearest and principal ingredient in the composition, in order to deceive the customers, and undersell the honest compounder.

To point out all the abuses in this way, must (*alas!*) be no less than a comment upon the dispensatory, which would be too tedious and prolix, and by reason of the difficulty of comprehending the nature or effects of *frauds* in *Pharmacy*, without some knowledge in *Physic*, as well as a good understanding in that art, I have chose to mention but some of the most obvious.

When *Jallap Root* is sold for six or seven shillings the pound, yet is the *Resin*, extracted at great expence and labour, tho' sixteen ounces of one, will not afford two ounces of the other, so vilely sophisiticated, as to be sold by our Druggists for two shillings an ounce.

The more compound and expensive a Medicine is, the more art and industry is used to *sophisicate* or *debase* it. Thus the *Treacle of Andromachus*, which takes it's name from the physician of *Nero the tyrant*, who invented it, and the *Mithridate*, which takes it's name also from it's royal author *Mithridates king of Pontus*, both which have been received into all the

Dispensatories, and ever since deemed the *Capital Medicines* in all the shops in *Europe* ; and of which the wise States of *Venice* have taken such special care in the composition, that they are not to be dispensed in the republic but under the inspection of Magistrates appointed for that purpose, whence the former got the common appellation of *Venice-Treacle*, because for a long time none was reckoned good that was not made there ; altho' it is most certain, that it may, and has been, as justly and faithfully dispensed and prepared here as there, or in any other place whatsoever : These noble Medicines, which for such a tract of time have stood the test, and were ever held in the highest esteem, are now fallen into such disrepute and contempt, through the frequent *debasings* and *adulterations* they have undergone, that it is rare to find either ever prescribed for internal use by physicians.

The temptations to *dishonesty* are certainly greater in our trade than in any other whatsoever, from the prodigious gains and assured secrecy that attend our worst *Deceits*. Most are capable of distinguishing frauds in the ordinary necessaries of life ; but as some *branch* of *medicine* alone can apprehend those in *Pharmacy*, so the apothecaries *transgress* undiscovered, or even unsuspected, openly, easily, and securely. Few Medicines have suffered more by the hands of dishonest operators, than those (once) justly famed compositions, just now mentioned ; the one of which consists of above seventy, the other of about fifty ingredients, mostly very rare, the products of the most remote parts of the World, and consequently difficult to be had sound and genuine ; yet are both so wretchedly debased by mercenary artificers, that they are daily openly sold for less than half the first cost of the true composition : Nay, the very inscription and seal, clapt upon the *Treacle* of *Venice* by the inspecting magistrates, is now artfully counterfeited in *London*, and put upon

pots

pots or canisters of their own vile manufacture to deceive the ignorant and unwary ; and this kind you may sometimes see hawked here as well as in *England*, by a pretended *Venetian* sailor, who perhaps never crossed the seas.

It is well known to every physician and good apothecary, that *Spirit of Hart's-born* (properly speaking) consists of nothing more than the volatile Salt, dissolved in the radical Humidity, and blended with a small portion of the native exalted oil of that Animal, extracted from his horns by fire, according to art ; and it's celebrated uses and virtues are too well known to require any panegyric. Yet this most admirable Medicine is now so basely *counterfeited*, that the few who have it genuine cannot pretend to sell it without loss ; being undersold by all the avaricious falsifiers of medicines, who make what they unjustly give that name to, and impose upon the public in it's room, of no better materials than *stale piss*, *brine*, *soot*, and *roche-lime*. And nevertheless this *adulteration* has so far gained ground and prevailed, that nothing but the pungent, quick-smelling *spirit of piss* will go down with the generality, being so long accustomed to this vile, *excrementitious distillment*, which strikes the senses so much more quick and piquant, that they pronounce the other dead or vapid.

Spirit of Sal Ammoniac is directed to be made with Salt of Tartar ; but because lime is cheaper, and affords more spirit, it is mostly used for it, tho' the spirits raised by both are extremely different.

How unequal the effects of true *spirit of hart's-born* and that of *piss*, and *spirit of Sal Ammoniac* with *salt of Tartar* and that with *lime*, may be upon the human body, I must leave to the learned in physic to determine ; but this I can say from actual observation, that true *spirit of Hart's-born* and that of *Sal Ammoniac* with *salt of Tartar*, are, in their own natures, truly alkaline, and produce a considerable

contrast, or ebullition, upon mixture with acids : Those with lime, the contrary—whence I think it reasonable to judge their respective virtues and methods of acting extremely opposite.

I could lay mine hand upon a certain venerable, antique Gentleman, who occasionally personates a Physician or Chirurgeon, an Apothecary, Chemist or Druggist, and GARTH's *Colon* * ,

In morals loose, but most precise in look.

Who takes a shorter and easier method of counterfeiting these *spirits*, tho' equally foreign to the true, and, perhaps, equally pernicious with the former *sophistifications*. He takes *Sal Ammoniac* one part, *Pot-ashes* two parts, and common water a sufficient quantity to dissolve the whole : when dissolved, he strains, and puts one part in a glass, falsely labelled, for *spirit of Sal Ammoniac*, and the other, tinged yellow, in one, more unjustly titled, for *spirit of Hart's-born* ; and sells both at a most exorbitant price, under the respective false denominations aforesaid, by the iniquitous use of the name of a certain considerable Chemist before-mentioned, on whom he fathers many other spurious compositions.

Unassisted reason, without any great knowledge in *Phyfic* or *Chemey*, may shew what a contrary effect these *cheats* must produce, from the genuine medicines ; and it is not difficult to conceive how both Patient and Prescriber must suffer by the use of this *borrid imposture* : For it is evidently but a mere solution of these crude salts, and consequently loaden with the caustic *Pot-ashes*, as well as the *marine salt* in the *Sal Ammoniac* ; both which compose a *third kind*, very repugnant to the properties of either *spirit of Sal Ammoniac* or *Hart's-born*, and which is so fixed as not to be raised by any degree of fire ; whereas what

what is truly *volatile* alone, (which only can answer the intentions of those who prescribe either *spirits*) is elevated by the gentlest heat.

The *Tincture* of *Castor*, another admirable remedy, is likewise basely *sophisticated*. It is ordered by the learned Authors of the Dispensatory we are to follow, to be extracted with spirit of *French* wine rectified, first distilled from *Castor*, *Cinnamon*, *Cloves*, *Nutmegs*, *Lavender Flowers*, and some other *aromatic*, *nervous* medicines, and this is called *spirit of Castor*; which must undoubtedly render the *tincture* more powerful and effectual for the purposes designed. Yet, notwithstanding, quite regardless of it's virtues or effects, you will find the apothecaries great strangers to this medicine. I have heard one of the most eminent among them, a man of great reputed honesty and understanding say, in the presence of some considerable Members of the College of Physicians, that this spirit is good for nothing, and that brandy extracted as good a *tincture* from the *Castor*. It must indeed be confessed, that *brandy*, or the *common*, *fætid*, *foul*, *Malt* or *Molossus* *spirits*, which are most frequently used upon this and the like occasions, instead of spirit of wine, will acquire as deep a color from *Castor* and such like substances, as the *spirit of Castor*, or any other spirit, of equal strength with them, can do; and that may perhaps suffice such as only aim at the basest rate to *counterfeit* the *external* form or appearance of a medicine, to answer their own mercenary ends alone. And we know *deceptions* are attempted in this kind, where the very similitude is wanting: For this same *false*, *reddish* *tincture* has been sold for the *spirit*, which is pure and limpid.

I would ask any candid man, conversant in Pharmacy, a few Questions, which he cannot, without concern, answer. Is it not known, That *common Copperose*, a *nauseous* and *unwholesome* *drug*, is sold for *Salt of Steel*, an agreeable, safe, and efficacious medicine, and even at a rate but little less than that of the

the genuine, the better to cover the deceit ? That *New-England Castor*, tho' vastly inferior in virtues, and of a very different make and appearance from the *Russian*, which we are always ordered to use, is taken and sold for that, only because a pound of the former seldom exceeds in value one ounce of the latter ? That *pot* or *gravelled Ashes*, of about a groat the pound, is sold for the *fixt Salts of Tartar*, of *Wormwood*, and other *vegetables*, which are not to be made without great trouble and expence ; and notwithstanding the extraordinary difference that appears between them upon experiment * ? That *Suet*, or some animal fat, but slightly impregnated with *Mace*, is sold for the *expressed Oil of Mace*, at less than the very *spice* can be sold for ? That common *Barbadoes Aloes*, of about twenty pence a pound, is used in many compositions, and sold for the *Succotrine Aloes*, worth about eight shillings the pound ? That *Saffron* is omitted in many medicines wherein it is ordered, or *Spaniſh* or *bastard Saffron* used instead of *British*, notwithstanding the greatest disparity in their virtues and prices ? That *Moloffus*; or *common Treacle*, is used in several electuaries, and other medicines, instead of the *Sirups* directed ? That common, *white Bryony Root*, bought at about two pence the pound, is mixed with, and sold for, *Jallap*, worth about six shillings the pound ? That *Jallap*, and other *barb̄ purgatives*, are used in the lenitive Electuary and *Daffey's Elixir*, instead of *Sena* ? That common *Resin* is mixed with and sold for *Resin of Jallap* ? That two considerable *nominal Druggists* bought up several hundred weight of a certain *aſtringent dying ſtuff*, feized by an ignorant examiner of drugs at the Custom-house for *Sena*, of which it had hardly any outward reſemblance, and to which it was diametrically opposite in quality, mixed it with

* See Hoffman. *Obſer. Phys. Chym.* p. 219. Boerhaav. *Elem. Chym.* Tom. ii. p. 34.

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with, and sold it for *Sena*? That *Gamboge* is mixed with, and sold for, *Turpeth Mineral*? That *red Lead* is mixed with the *red*, and *white Lead* with the *white Precipitates of Mercury*? And that *Spaniſh White*, or *Whiting*, of about a groat a ſtone, is fold for *white Lead* which is worth ſo much the pound? and (ſome ſay) even for *Diaphoretic Antimony*? Do not moſt ſeeds loſe their *medicinal virtues* with their *vegetative quality*? and yet, are not the ſeeds fold among us, uſually ſuch, the very uſelesſ ſweepings of Seed-mongers-shops? Is not the Vinegar of *Squills* generally made with *green* iſtead of *dry* ſquills, which are ordered by the Dispensatory; tho' it is apparent to common reaſon, that they are rather preſerved, than yield their virtues in that manner? and this only, because that root loſes about one half of it's weight in drying? I wiſh I could ſay no more! and I am ſorry to ſay, that every ſenſible man, who has taken pains to learn and pry into the ſecrets of our *Pharmacy*, muſt know theſe and many more, and muſt anſwer theſe *Quære's* in the afſirmative.

Thus have I endeavoured to lay before you a ſhort ſketch of the moſt common, *wilful abuses* of Apothecaries and Druggifts, which alone may ſhew, how the Dishonest injure the *KING's Revenues*, impoſe upon the *Public* in general, and prejudice every branch of the *Healing Art*, the *Apothecaries* in particular, the honest of whom are grievouſly oppreſſed by the *fraudulent*. See p. 52.

As theſe are the effects of ſordid avarice and degeneracy, no honest intelligent man can, with a clear conſcience, conceal them. Such errors as proceed from pure, ſimple ignorance, as *deſtilling Sal Ammoniac in iron, tin, or leaden pots*, when every operator of judgement muſt know, that, that Salt, from it's known ſubtilty and aptneſs to enter the pores of metals, and diſſolve them, was by the Chemiſts called, *The Key to Metals*; and it has been proved
by

by a most accurate observer *, that all metals are sensibly affected by destilling spirit of Sal Ammoniac from them, and that, consequently, nothing but glaſs can withstand it's penetrating force effectually ; as like-
wise destilling ſundry ſpirits, oils, and waters, and the boiling or infuſing ſirups, decoctions, infuſions, oils, ointments, &c. in untinned copper bodies or vefſels, which maniſtly alters their properties ; and their levigating teſtaceous and other hard bodies upon ſoft ſtones, by which means, Curſor's-ſtream black flag has been often ſold for Crabs-claws, Corral, nay, for Pearl, Bezoar, and other precious ſtones, if they ever uſed any, after being firſt infected by powdering in a ſoft brass mortar : These, I ſay, I could paſs over in compassion and charity, and not impute them as crimes to any ; they, indeed, call for reformation ; but wilful and apparently pernicious corruptions and abuſes cry aloud for a ſcourge.

When apothecaries become ſuch obſtinate, hardy malefactors, what can it tend to leſs than the utter subverſion and ruin of physic, which is ſo connected with, and has ſo great a dependence on, pharmary, that they muſt neceſſarily rise and fall with each other ? — I would ask the judicious tender physicians and chirurgeons, are they not often in more pain than ſome of thoſe they preſcribe for, when they do not know what ſhop their preſcriptions may fall into, on the due preparation of which the health or life of the patient, as well as their credit and reputation, depends ? How vain and uncertain are all their moſt accurate obſeruations on diſeases and the effects of remedies rendered by the various diversification of their preſcriptions ; when the ſame *recipe* ſhall produce diſtinct effects, according to the ſeveral ſhops it has been prepared in ? Who can preſume to preſcribe the well-known doſes of the moſt powerful and efficacious chemical medicines, the *mercurial* preparations

preparations especially, when less than a sixth of an ordinary dose has been found to induce the most baneful symptoms?—But hap what will, the apothecary knows he is safe; let him but vend his wares, it is all he seeks. As for mischances, those can only fall upon the patient and prescriber, and if, perchance, he is suspected, as he attends closely, and, perhaps, for that end, he speaks first, and soon acquits himself with impunity; and tho' *conscious* of the *badness*, or, at best, *uncertain* of the *goodness* of his medicines, having *bought*, not *prepared* them, frames many artful excuses, and never fails to heap the scandal of their ill success on the defenceless prescriber, which is justly due to his ignorance, dishonesty, or neglect.

Bad as the consequences of the forementioned *corruptions* prove, it were happy they had extended no farther. But this *contagious degeneracy* has now made such a surprising progress, that we have not only *lost our art*, but, with it, the *knowledge* of many of the most *valuable simples*, and use, in their stead, the *most foreign and unnatural substitutes*. Thus, for a small *testaceous* production, found in the stomachs of fresh-water crabs, or craw-fishes, called *Lapides*, or *Oculi Cancrorum*, Crab's-eyes, we do not blush to sell some small pellets of outlandish clay, artfully molded into the same form; even tho' it is obvious that they do not retain the least resemblance of the properties or virtues of the true *Crab's-eyes*.—Some of our learned naturalists * affirm, that what we now use for *Nitre* is extremely different from the *Nitre* of the *antients*, in appearance and effects. In like manner, that noble styptic and vulnerary, *Roman Vitriol*, is not to be seen among us; yet we do not scruple selling for it *Hungarian* or *Cyprus Copperose*, tho' of quite another nature, and as different in color

* Hoffman. Obs. phys. chym. lib. ii. obs. i. Boerhaav. E. ^{mag.} chem. Tom. ii. p. 241. Geoff. Lectures on Mater. Med.

color and appearance, as well as effects, as *green* from *blue*.—A man can hardly hear the name of *Arsenic* without horror, from the frequent deadly effects of that drug; and yet we are well assured, that the *Arsenic* of the *Antients* was *no more a poison*, than any other active medicine; for the yellow, called *Auri-pigmentum*, and the red, called *Sanderacha*, were both given internally by *Hippocrates*, *Dioscorides*, *Avicenna*, *Fallopis*, and others. *M. Geoffroy*, aforesaid, says, that the *Indians* drink wine infused in arsenical cups as a sovereign remedy; and it is most certain that we never have had any just complaints, or even mention, made of the least ill effects from either, until the *factitious* kind (a most incorrigible poison, and utterly unknown to the antients) falsely usurped it's name and place; whereby the true *native Arsenics*, being more rare, became quite neglected, and are now buried in oblivion *. Thus likewise *Turpentine*, a balsamic exudation from the *Terebinthus* or Turpentine-tree, and even that from the *Larix* or Larch-tree, which is yet more common, and called *Venice-Turpentine* (tho' improperly) is now scarcely ever seen, and hardly known, among us; because the cheaper *substitutes* of the *resins* of *firs*, *pines*, &c. and their *oil* (which is falsely called, and sold for, *oil of Turpentine*) blended together by fire, is sold in it's place by the *druggists*, vastly cheaper than the genuine can be imported for. This vile cheat has been often openly detected in this kingdom. An experienced *artificer in frauds*, well versed in thus counterfeiting the works of Dame Nature, and who produced more Turpentine, in his way, annually, than many of the largest trees in the *Venetian* territories, had his artifice brought to *light* by his composition's taking fire, and burning his and some neighbouring houses in a certain great city; and

* Hoffm. Obs. phys. chym. lib. iii. obs. i. Boerhaav. Elem. chem. Tom. i. p. 26, 27.

and tho' he might have justly dreaded another fate, yet has he lived to apply to himself a phrase taken from the regeneration of the Phænix, often misapplied by canting, false chemists, *Damnum reparabitur Igni*; which is, indeed, verified. For, that *base incendiary* has, by that accident, been raised out of dust, ashes, and poverty, by the generous (but misapplied) contribution of the citizens.—We have an account of one that died a martyr to this cause in the country *.—If any honest industrious man should be at the pains to procure these things genuine, what must he do with them? Long disuse has rendered them now unknown, and besides, his customers can only judge of the different rates, and not the qualities, of medicines; so he is reckoned an extravagant extortioner, and loses their favour and custom, and the commodities may lie upon his hands till they perish before he can sell them to advantage. Thus, unlike all other artists, *is the just, conscientious apothecary to be required!*

I could now most willingly drop the ungrateful task of exposing men's faults, were it not necessary to a perfect cure, to dive into the bottom of their morbid state. In hopes, that when all are exposed to open view, you with the rest of the great *physicians* of the STATE when next in *consultation assembled*, may apply some remedy to this cursed, *chronic distemper*.

It may be thought probable, when men might, in the most considerable instances, gratify their shameful avarice with the greatest secrecy and impunity, that they would not hazard a discovery, (tho' there was no law to punish them) by a more open transgression, which every body may detect: But see how a long habit of iniquity, at once obdurates the hearts, and captivates the fenses of the feeble, wicked, wretch!

The

The *apothecaries* and *druggists* not content with the fairest opportunities of defrauding the public in almost every other respect, must deceive every customer, patient or prescriber, by altering the weights and measures directed by ours, and almost all other collegiate dispensaries in *Europe*, for I can affirm, that they are not smaller in any.

When a physician writes for an *ounce* of any medicine, he expects *eight drachms* of *sixty grains* each, according to the table of weights prefixed to the dispensatory ; but he unexpectedly falls short of about *forty four grains*. For instead of the *medical* the *civil* or *avoir-du-poize* weights are used, each *ounce* of which contains but about *seven drachms* and *six grains* of the former weight. The evils arising from this practice are not in many cases less detrimental to the public, than the frauds and abuses already mentioned in medicines.

All the officinal compositions, and extemporaneous prescriptions, are so calculated by the prescribers, that if duly prepared according to their intentions, they must necessarily know to the greatest exactness, the quantity of the *principal*, and indeed of every *respective* ingredient contained in a dose, or any given quantity of the mixt medicine. Thus for instance, *four scruples* of *Venice Treacle* are known to contain *one grain* of *opium*, *half a drachm* of the *Earl of Warwick's powder*, *eighteen grains* of *scammony*, and so forth. Without knowing this to the greatest certainty, no man can safely prescribe ; for by this rule it is, that all mixt or compound medicines are dosed and prescribed. But as the weights are now confounded, it is not possible for a physician to adjust the dose of any composition with the least certainty. Suppose, for example, an *electuary* is prescribed ; in every *ounce* of which it is intended there should be *ten or twenty grains* of *opium*, or of any strong purgative or other active medicine, of so great energy, that it required the greatest accuracy

cy in the dosing. This electuary instead of being dispensed by the *proper* weights, is done partly by the *avoir-du-pois* and partly by the *medical*; for the pounds, ounces and half ounces are of the former, but the drachms, half drachms and scruples of the latter denomination in our shops. So that instead of ten or twenty grains in one ounce, or eight drachms, here is the like number of grains in seven drachms and six grains of this electuary: And as the same disproportion holds in all other compositions, the grains not varying in any weights, so the physician in this respect too, is exposed to the most dangerous *deception*; for his patients must be frequently *over dosed* in the chief, active ingredients in his prescriptions, and in the more simple, *under dosed*, as every ounce given wants almost one eighth. This dire confusion increases with the weights; for the *medical pound* is above two ounces lighter than the *avoir-du-pois*. What a doubtful, inconsistent medley must such compositions be, as are dispensed thus unjustly and irregularly?

The same irregularity has likewise confused the *medical measures*; which are *gallons*, *pints* or *pounds*, and *ounces*, used in the dispensation of certain liquids. For tho' *apothecaries* may have *just ounce measures*, yet if *four ounces* of any simple water are prescribed, the *naggin* is most commonly used, which wants about half an ounce of the intended, *just measure*: This is of the same consequence with the errors in weights; as *laudanum*, *opium*, &c. which are weighed, are often intended to be conveyed in proper doses, in certain proportions of *juleps*, &c. which are *mostly measured*.——How unlikely then is the best physician to cure his patients, when tho' he should get good medicines, which is above twenty to one against him, yet they are assuredly not dispensed by the *weights* or *measures* he expects or intends: So that it is great odds, his prescriptions are by this means too frequently abused or misapplied!

One thing more (tho' out of place) I must here

observe *my brethren* yet to blame in, and that is the unprecedented, evil custom of keeping several *destructive poisons* and *poisonous drugs*, not at all used in medicine, promiscuous in their shops, with sundry other drugs of great and near resemblance in outward aspect; which are often handled, weighed in the same scales, powdered or otherwise prepared in the same mortars or other utensils, and upon the same compters, where divers medicines are handled, weighed or prepared.

Insatiable avarice, which begot an inordinate desire of extending the profession of pharmacy, to grasp at things out of it's way and reach, for the sake of lucre; first made apothecaries *poisoners* in any instance, and probably the words *pharmacus*, and *pharmacum*, synonymous for *apothecary*, *villain* or *poisoner*, *remedy* or *poison*.—Sure no man can be insensible of the dire effects of handling or keeping poisons near medicines, when it is notorious that the baneful dust of such, nay the very *effluvia* of some, contaminate the very ambient air, and consequently every thing it touches. Can it be from any other cause than their too near vicinity to the *faetitious Arsenic* boxes, that so mild and inoffensive things as *burnt Heart's horn* and *cream of Tartar* have often induced the most dreadful sicknesses and vomitings, and to some proved deadly? unless the *cream of Tartar* is adulterated, as we have too much reason to doubt, with *Willis*, *Riverius*, and *Harris* *. Have we not had many melancholy instances of fatal miscarriages in this way, from such shops as deal in poisons? And if these do not convince the *mercenary apothecaries and druggists* of their *errors*, and dissuade them from this dangerous practice for the future, the force of reason will probably prove fruitless, and we may expect relief in this, as well as the forementioned grievances, from nothing less than a severe, rigorous law.

No *apothecary* or *druggist* in *London* transgresses in this

* *Pharmacolog. anti-empiric.* p. 150. & seq.

this instance. *Color-selling* there, is a quite distinct branch of trade: And the *color-men* who profess that alone, are as ignorant of medicinal drugs (if possible) as any of our pretended *apothecaries*, or *druggists*. This gives them more leisure, and makes them more careful and solicitous to improve, and cultivate that business. Whence we find the *colors*, *oils*, *vernices*, &c. are with them properly treated, and so to be had pure and good in their kind: which is more than our *color-men* can say for these or any of their proper commodities.

If *apothecaries* and *druggists* had not fallen into a most abject state of sloth and stupidity, it would not have been necessary to make this *second application* to *PARLIAMENT*, for laws to restrain them from this *manifest evil* at least. They might consider, that hitherto they have been treated like ancient *Spartans*, while their crimes lay hidden; but to risk a discovery of *all*, by such transgressions as must be *obvious* to vulgar eyes, is surely the worst policy: Methinks those that *will steal*, should, like the *Spartan youth*, *let the Fox tear the loins, and even consume the bowels, rather than it should appear who stole him*; unless he, thro' a sense of *penitence*, discovers.

I shall now close this section with one short reflection.

If this *cursed apostacy*, this *fatal degeneracy*, which we here complain of, and most earnestly desire to be reformed, had tended to no worse an evil, than the *ruin* and *subversion* of one of the *most antient, noble and useful ARTS*, to say nothing of it's bringing it's eldest twin-sister, *PHYSIC* (which must necessarily rise and fall with it) to the ground, and was not attended with that dismal train of evil consequences to mankind in general which we daily discover, sure the vile *miscreants* who have brought it to this low pass, and rendered it destructive instead of useful to the public, must be deemed most highly culpable, and the most unworthy members of human society; as the destroyers of useful arts

are deservedly reckoned more criminal and despicable, than the inventors or improvers of them have been accounted beneficent and honorable, And since it is apparent, that **PHARMACY** is an Art which the three first ranks of men among the antients, to wit, **KINGS**, **PRIESTS**, and **PROPHETS**, did not disdain to cultivate and occupy, as both sacred and profane histories evidently testify ; an *art* which is the *mother* and *nurse* of many *others* ; and which in it's *purity* contributed to the preservation, not only of the living, but likewise of the dead Bodies of the illustrious ; in fine an *art* which, under **GOD**, is one of the principal agents in preserving the noblest machine of the Almighty's creation from disorder, in restoring it when disordered, and when by time it's springs and movements are worn out, and it's actions thereby cease, keeps it from corruption and decay for many ages : And since it is now manifest, that this *excellent art* has been effaced, perverted, and almost quite obliterated, by the pernicious *abuses, corruptions* and *frauds* of *apothecaries and druggists*, surely the subject of it's *restoration* and *reformation* well deserves the serious attention of **PARLIAMENT** ; as by the wise interposition of that alone, we may hope to see **PHARMACY** rescued from the hands of barbarous *assassins*, revived, and once more shine in it's pristine lustre and beauty, restored to it's original use, worth and dignity. This is all that now seems wanting to bring the *practice* of *physic* to it's *primitive certainty*, which by the forementioned *errors* and *impositions*, has been long rendered *precarious* and *uncertain*.

IV. Order now leads me to the fourth and last thing proposed, namely, to offer some means to prevent such horrid mal-practices for the future, &c.

I have in the foregoing, endeavoured with the greatest care and impartiality to state the *case* of *pharmacy*, to the best of my power. As the *distemper* is most inveterate, perplexed, and complicate,

so to prescribe adequate remedies for it, requires a *consultation*. But from the unjust opposition and ill usage I met with from the fraternity, in my *late attempt* to reclaim the profession, I can neither ask nor expect their assistance or concurrence in this *Essay*. Therefore, as necessity requires it, I must alone venture to offer my best thoughts upon the whole, tho' it is an hard task, and prescribing, in either *physic* or *law*, not my proper province.—

Before my prescriptions are put in practice, let my worthy seniors justly correct and reprove me; I shall receive their amendments with pleasure, and shall cheerfully assent with every good man, that shall rationally treat this *luxuriant evil*.

When the source of a distemper is known, the method of cure is least difficult; and when the cause of a disorder is removed, the effect of course must cease. The former I think I have discovered, the latter there are various ways of bringing about. *Physicians*, as far as it may be consistent with reason, and the safety of the sick, gratify their taste and adapt medicines to their *gouts* and weakly appetites. We know of old, that the *distempered apothecaries* and *druggists*, have the most *vitiated palates* and very *weak, squeamish stomachs*, and that they never yet could *relish* or *digest* any *remedy* given to alter or amend their *morbid habit of body*. Tho' many *mild, rational attempts* were made to restore them to their *natural health*, they would never consent to use the means directed. At length, wearied with trying all the just methods, that must with sensible men have prevailed, the college of physicians finally, began to treat them, as real *Maniacs* required, with *Helleborine* and other *drastic remedies*, which indeed had no better effect; for like true *Bethlemites*, they spurned the medicines, and when by force they were poured down their throats, they spewed them in their *Architators' faces*. This will need no explanation when you recollect the violent opposition both publicly and privately made to the bill de-

pending in the House of Commons in the year 1725, to prevent abuses in the practices of physic and pharmary. In like manner in the year 1735, when the act now in force took it's rise in the House of Lords, tho' the whole fraternity privately and publicly confessed *a reformation greatly wanting*, and tho' some of the most eminent among them *approved of the means then proposed*, yet did they jointly, unanimously oppose it, and published a *case* which they laid before the house; in which they asserted many weak falsehoods, and made sundry, trivial and ridiculous evasions, to prevent farther inquiries being made into their *habitual frauds*, or any laws passing to restrain them from their *long accustomed, evil practices*. These instances I think necessary, to shew, how averse these men are and ever have been to *reformation*. I am sorry to say it looks, *as if they had loved darkness rather than light, because their deeds were evil*. For since no man can fear that *truth and integrity* can suffer by an *open examination* or any *fair test*, sure this aversion thereto is another plain proof of the necessity for some effectual law; which I humbly conceive may be made very conveniently by adding a few, proper clauses to the *present act*: And I submit it to your judgement, whether or no, it may be expedient to make the following amendments in that bill, and whether they may or not, answer the good purposes designed.

1. That the *College of Physicians*, the better to enable them to execute this act, be impowered to increase the number of their *fellows* *.
2. That the said *College of Physicians* be authorised to try and examine all persons whatsoever who now do, or hereafter shall make, prepare, sell, or expose to sale, any medicines, or keep any, whether simple, or compound for that purpose, and to licence

* The Charter of the *College of Physicians of London* is confirmed by 14. & 15. Hen. 8. Cap. 5. s. 2. & 10. Geo. 1.

cence such, and such only, as they shall find duly qualified, as *apothecaries* †, *chemists* or *druggists*.

3. That no person whatsoever may presume to make, prepare, administer, or vend, or keep for that purpose, any drugg, or medicine whatsoever, whether simple or compound, after a day appointed, unless he has stood such examination, and has obtained a licence or qualification, under the hands of the *President* and *Censors* for the time being, and the seal of the said *College of Physicians*.

4. That no *apothecary*, *chemist* or *druggist*, may take an *apprentice* to learn his or their art or mystery, trade or occupation, before such intended apprentice first stands and answers the same examination which is deemed necessary for those who enter the *University of Dublin*, and produces a proper certificate of his due qualification, under the hand of the *Senior Lecturer of Trinity College, Dublin*, for the time being: Which said apprentice, so examined and qualified, may be bound and shall be inrolled, and his said certificate registered in the *company or corporation of barbers and chirurgeons, apothecaries and peruke-makers, or Guild of St. Mary Magdalene, in Dublin*; and shall according to the manners and customs of the said *Guild* and *City*, serve an apprenticeship of seven years at the least: And farther, that no such apprentice after such service, shall presume to make or prepare, dispense, administer or vend, any medicine or medicinal drugg, whether simple or compound, until he has farther qualified himself by a due *examination in pharmacy, &c.* to be made by, or before the *president, censors and fellows*, of the *College of Physicians* aforesaid, with twelve *free, licensed apothecaries*, in such manner, form and place as to them shall seem meet: And that the said *College of Physicians*, may be obliged

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and

† The College of Physicians is impowered by Charter of *W. and M.* to examine Physicians, Apothecaries, Chemists, Druggists and Midwives, and to licence such and such only as shall be found duly qualified, and to punish others.

and empowered to try and examine, every such person or persons, as shall produce a certificate from his, or their master or masters, or in case of his or their master, or masters death, or refusal, from the *master and wardens of the corporation of barbers and chirurgeons, apothecaries and periuke-makers, or Guild of St. Mary Magdalene* aforesaid, of his or their qualification and service as aforesaid, at any of their *Charter-meetings* in every year. Which said *College of Physicians*, may be empowered and authorised to licence such and such only, as they shall judge capable of his or their profession, under the hand of the *president and censors* for the time being, and the seal of the *College of Physicians* aforesaid *.

5. That the better to examine the *topical medicines*, two *chirurgeons*, being freemen of the *Guild of St. Mary Magdalene* aforesaid, be obliged to attend with the *apothecaries* to assist the *examiners*, in their searches and visitations of the shops, &c. of *apothecaries*, &c. and that the said *examiners*, with their *assistant apothecaries* and *chirurgeons*, shall severally wear the *gowns*, or other proper *habiliments* of their respective stations in the *College* or *City*, and shall be attended by the *beadles* of the said *College* and *Guild of St. Mary Magdalene* respectively, properly attired, in their visitations.

6. That the better to inforce the execution of this act, and the more effectually to empower the said *examiners*, and *assistant apothecaries* and *chirurgeons*, to discharge the power and trust vested in them by this act, a *civil officer* may be appointed to attend them, and to execute their decrees †.

7. That

* The Corporation of Barbers and Chirurgeons, &c. being desirous as much as in them lies to promote the public Good, have, by virtue of the Powers granted them by Charter, to make By-laws for the good of their Society; ordained, that no Chirurgeon nor Apothecary shall hereafter be admitted free of this Corporation, until he is first examined and found qualified by a Committee of twelve men of his Occupation, and the President and Censors of the College of Physicians.

† All Justices, Mayors, Sheriffs, Constables, &c. are obliged to

7. That no *apothecary, chemist, druggist*, or other person whatsoever, who makes, prepares or sells medicines for payment or livelihood, may take upon him to prescribe for the sick in any disorder whatsoever, except in cases of necessity, as in the country, where neither *physicians* or *chirurgeons* may be timely had *, and that they may not on any account or pretence whatsoever, sell or administer, nor suffer or cause to be sold or administered, strong vomitives or purgatives, nor provocatives to *Venery, Abortion* or the *Terms*; such as *Antimonial, mercurial and chalybeate preparations, Cantharides or Spanish flies, Scammony or Resins of Fallap or Scammony, Gamboge, Savin, &c.* nor *Quicksilver, nor Opium, or any preparation of either, to any, without the prescription of a known physician.*

8. That no person may obtain a *certificate* of the entry of any *drug* or *medicine*, unless the assistant *apothecaries* in *Dublin*, or any two *apothecaries* in any other port, having first taken the *examiners oath* before the magistrate of the place, or the next justice of the peace of the county, where such entry is made, who shall have power to administer and receive the same, shall certify to the proper officers, under their hands, that the *drugs* or *medicines*, so entered, are truly the same they are entered for, and that they are found, pure and genuine.

9. That no *apothecary, chemist, druggist*, or other person whatsoever, who, after a day appointed, shall keep, sell, expose to sale, or keep for that purpose, white, yellow, or red *Arsenics*, or other paints, or dying stuffs, used only by painters, dyers, and such like artificers, and not safely or commonly used in physic or medicine, may be allowed to make, prepare, or administer, any medicine or medicinal

to assist the President, &c. of the College of Physicians of *London*. 32. *Hen. 8. C. 42. Sect. 6.*

* It has been holden, that if a person not duly authorised to be a Physician or Chirurgeon undertakes a Cure and the Patient dies in his Hands, he is guilty of Felony. 1 *Hawk. P. C. 87.*

dicinal drug, whatsoever ; whether simple or compound ; nor may such persons as keep *Arsenics, &c.* for sale, vend them, or any other *poisonous drug*, to any one, without the licence of a magistrate, where such are sold.

10. That the *assistant apothecaries and chirurgeons*, may be chosen by the *corporation of barbers, and chirurgeons, apothecaries, and peruke-makers* aforesaid, at the usual times and places, and in the ordinary manner of chusing the several *officers* of the said *corporation* ; giving due notice to the college of physicians, who shall approve and fwear the same. †

11. That the two *assistant apothecaries* and the *master*, or one of the *wardens* of the *corporation of barbers, &c.* for the time being, being an *apothecary*, shall have full power and authority, to hear and receive complaints, and to examine the bills or accounts of *apothecaries* with their customers, and to tax or reduce the same, as to them, or a majority of them, shall seem just and reasonable.

12. That all *apothecaries* and *chemists*, may be obliged to observe strictly, and prepare and dispense their several drugs and medicines, for officinal use ; by whatsoever *Dispensatory* the College of Physicians shall direct or appoint. And that the *capital compositions* as the *treacle, mithridate*, and whatsoever other medicines they shall require, shall not be dispensed or compounded without giving public notice to the examiners and assistants, who shall examine and inspect such dispensation.

13. That the said *examiners and assistants*, may have power to view, try, and examine all *scales, weights, and measures*, used in the shops of *apothecaries, &c.* and to seize, all such as shall not be made according to the standard of the appointed *Dispensatory*, or otherwise false or defective ; with authority farther, to punish whomsoever is found to offend in this manner.

14. That

† In London the wardens of the company assist the examiners.
10. Geo. 1.

14. That it may be lawful for the Lord Mayor of *Dublin*, if the College of Physicians neglect, and for the *chief magistrate* of any city, besides *Dublin, borough, or town corporate*, or for the *High Sheriff* of any county, to summon any two, or more *Physicians* in such *city, &c. or county*, to administer to them the *examiners oath*, and with them to enter in the day time the shops, &c. of all *apothecaries, &c.* within such *city, &c. or county*, and therein to search for, view, and examine all *druggs and medicines* therein kept ; and to condemn, and publicly to destroy, such as the said physicians shall find unsound, adulterate, corrupt, or decayed. And likewise to view, try, and examine all *scales, weights and measures* ; and to seize all such as they shall find false, defective, or excessive, &c. with a clause for an *appeal to the College of Physicians*, giving damages to the appellants, against such physicians, in case the said *college* does not ratify their sentence or decree.

15. That no *druggist, or wholesale apothecary, or chemist*, who supplies any retailers with drugs or medicines by wholesale, may presume to dispense, prepare, or make up any physician's, or chirurgeon's, prescriptions : Nor may such be *chosen, or serve, as assistants to the examiners appointed by this act.*

16. That no *examiner, assistant, or civil magistrate*, appointed by this act, shall serve above one year, and not for four years after.

17. That all *physicians* of the *college*, and all *apothecaries and chirurgeons* of the *corporation of Barbers and Chirurgeons, Apothecaries and Peruke-makers, or Guild of St. Mary Magdalene in Dublin*, or any of them, may be exempted from serving on juries or inquests, and all other offices ecclesiastic, civil, or military, (those of the said college and corporation only excepted) if they, or any of them, shall require it *.

18. With

* The same privileges and immunities are granted to the *Physicians*

18. With general saving clauses and provisions for appeals, rewards or gratuities, penalties, &c.

The reasons for these several proposed amendments, I hope, are evident from the foregoing; if not, I believe I shall be able to shew them when required.

Although I have been obliged to protract this Letter beyond the intended length, in order to give a just, clear Notion of the whole matter, and to obviate any difficulties or objections that may arise, or be made against it, by designing men; yet I must beg you will with patience, and your usual candor, now hear me a few words in mine own behalf.

From the unexpected ill treatment I met with in a former weak attempt of this kind *, it is easy to conceive what I may now expect from many of the Gentlemen who call themselves *Apothecaries, Chemists, and Druggists* †, tho' I flatter myself I do in some sort deserve the thanks of every man, who would *honestly* follow any of these occupations; my design being only to shew, who is *properly* and *truly* an *apothecary* or *druggist*, and what the proper *office* and *duty* of each; together with the necessity of their adhering to their immediate respective professions, solely, diligently. Notwithstanding, I look for the taunts and outcries of the multitude of ignorant, idle, selfish, and invidious men, among us, against me, in every shape. However, I shall not think myself obliged to take the least notice of *self-interested back-biters*, nor their *pyratical Missionaries*, who will probably, as before, go about industriously to blast

Physicians, Chirurgeons, and Apothecaries of *Lond.ⁿ*, by the 32 Hen. VIII. c. 40. s. 1. 3 Hen. VIII. c. 11. s. 1. & 6 Will. III. c. 4. s. 3. The Barbers and Chirurgeons company is allowed, for anatomical uses, the bodies of four executed felons annually; and their charter is confirmed. 32 Hen. VIII. c. 42. s. 1. 2.

* A short scheme for preventing frauds and abuses in *pharmacy*, 1735, on which the present Act was founded.

† Titles by which most Apothecaries, Druggists, &c. registered themselves by the Act in the year 1736.

blast my credit, and asperse and villify my character ; not even * *anonymous, scribbling privateers, or backney-pambleeteers.*

Some will perhaps advance with the humorous *Garb †, that,*

That juggler which another's flight will shew,
But teaches how the world his own may know.

To this indictment I shall, according to form, plead, *Not Guilty*, and so put myself, for trial, on my *customers* and the *public*.

But the grand insinuation in my prejudice, which has heretofore been made and will now probably be revived, is, *that regardless of all public good, in unreasonable aversion and opposition to my fraternity, and by way of advertising and extolling my self, by depreciating them, I have turned a reformer, being in every instance acted more by selfish mercenary views, than any other.* — This, I hope, to every considerate unprejudiced reader, will appear as malicious, and as groundless, as the rest of their base detraction is false and uncharitable. I challenge any man to say, I was ever once known to lessen the just merits of any apothecary or druggist whatsoever. Had I none other motive than common policy, I should not attempt to recommend my self to the world by such low, mean artifice : moreover, let it but be considered, did I heretofore, or do I now offer ought to the detriment of any honest, just apothecary, chemist or druggist ? If I have, I declare it the effects of mere inadvertency ; for it is not to be reasonably imagined, that I should knowingly do any thing to the prejudice of a profession, which I have made my choice, by which I have hitherto lived, and still purpose to follow, as long as the same excellent set of customers, which have hitherto dealt with me, and

* Remarks upon the Scheme for preventing frauds and abuses in Pharmacy, &c. wrote by a certain Quack-Apothecary.

† *Dijpens.* Cant. iii.

and most nobly and generously encouraged me, are pleased to continue their unmerited favors. In the next place, I submit it to the judgement of every candid breast, what *mercenary views* I could have had in this undertaking. I believe it is evident, tho' I was at great expence, and much trouble in writing and printing, and in attending the parliament in the year 1735, that, instead of gaining any selfish advantages thereby, or in any sort soliciting for such, I have been a considerable sufferer, if it were by none other means, than bringing upon me (tho' I hope undeservedly) the implacable hatred and enmity of all the apothecaries and druggists. And I hope there are some men of quality and distinction, still living, who can attest, that tho' I was encouraged to sue for a parliamentary reward, yet I justly disdained all applications for the like, being content with the public good, which was likely to accrue from my weak endeavours. *Vertue to a prepared heart, never fails of bringing an ample, concomitant reward.*

This I will however confess; that I have some *selfish private* (tho' not altogether mercenary) *views*, in soliciting a reformation of pharmacy, and a strict examination of apothecaries and their shops, because I would from my *self*, as well as *others*, remove all temptations to the abuse or corruption of my profession, and by all ways and means, promote the knowledge thereof, and give all reasonable encouragement to following it strictly, justly, and faithfully. And I conceive the examination of apothecaries and druggists, and the inspection of their shops, would be one motive; as it must prove as advantageous to every skilful honest apothecary and druggist, as it must be disadvantageous to the unskilful and dishonest. Moreover, as the apothecaries and druggists, have been very active, and I have some reasons to judge, there are some of them still unwearied in wounding my character and reputation, in the most false, malicious, and uncharitable manner; I hope,

hope it is not culpable in me to seek, with the redress of a general grievance, a public method of confuting those groundless calumnies. For in such a trial, I flatter my self, it will appear, that if I should not have had as fair an opportunity of learning *pharmacy*, or as good a capacity, as many of those, who make a better figure in the profession ; I have taken more pains in acquiring some knowledge in it, in order to make amends for such *disadvantages*, and to supply such a natural *defect*.

I might have taken the usual liberty of dedicators, and here claim a sanctuary to my self, and this poor performance, by prefixing your illustrious name. But even this is an artifice I despise ; for if it has not merit enough to maintain it's ground, tho' cloathed in this mean simplicity, let it be rejected, or fall unregarded.

From one of your great humanity, refined taste, and just notions of morality, I fear I may dread some censure for an unbecoming zeal, in using thro' this discourse some *terms of reproach, expressions, which may bespeak an unseemly freedom with my fraternity*, or such as *may savour somewhat of spleen or invective*. In this respect, perhaps, I am to blame, but when you consider how difficult it is to treat such vile offenders as I complain of more properly, or for a man of any conscience, or understanding, barely to mention such base degeneracy, such abominable perfidious villainy, as I have laid before you, or even but to think of the like, without some heat, indignation, and abhorrence, I hope it will, in some measure, plead my excuse. I have industriously avoided personal reflections ; except where the offenders were so singularly notorious, that they must be known to many, by mentioning their crimes only. And altho' I have from many of the society, received much unkind, ungenerous, and I may say, uncharitable, unchristian treatment ; and altho' the dignity of the parliament-house in full session, could not protect me from their violent rage, and merciless insults,

not

not only in the offices adjoining, but even at the bar of the *House of Peers*; yet, I most solemnly aver it to you, that it is not the persons, but their vices I detest, and would expose. I know there are still among them, men of distinguished worth and candor, who are ready and willing to suffer a reformation; and I am inclined to think, that many of those, who formerly opposed it, were led thereto by inadvertency, or the clamors of the multitude. If any thing I have said should offend, or seem levelled at particular persons, I must say with the ingenious *Garth*, * “ it is at such only as are presumed to be engaged in dishonourable confederacies (against the public and) against the dignity of their own profession; but if there be none such, then these characters are but imaginary, and consequently ought to give no body offence.” —

I conclude with the words of the late learned doctor † *Merret*, on another occasion.— “ Acrem me habebunt verissimumque vindicem, fraudesque detegam ab artis hujus incunabilis in hunc usque diem usurpatas; idque reipsa comprobabo haud suspectæ fidei testimoniis; simulque omnia stigmata societati nostræ inusta detergam. —

I am, with due respect to your honorable station, as well as the greatest regard to your person,

S I R,

Your most faithful,

and most obedient Servant:

Dublin, Novem-
ber 11, 1741.

C. LUCAS.

* Preface to *Dispens.*

† *Pinac. natur. Rerum Britt. Praef.*